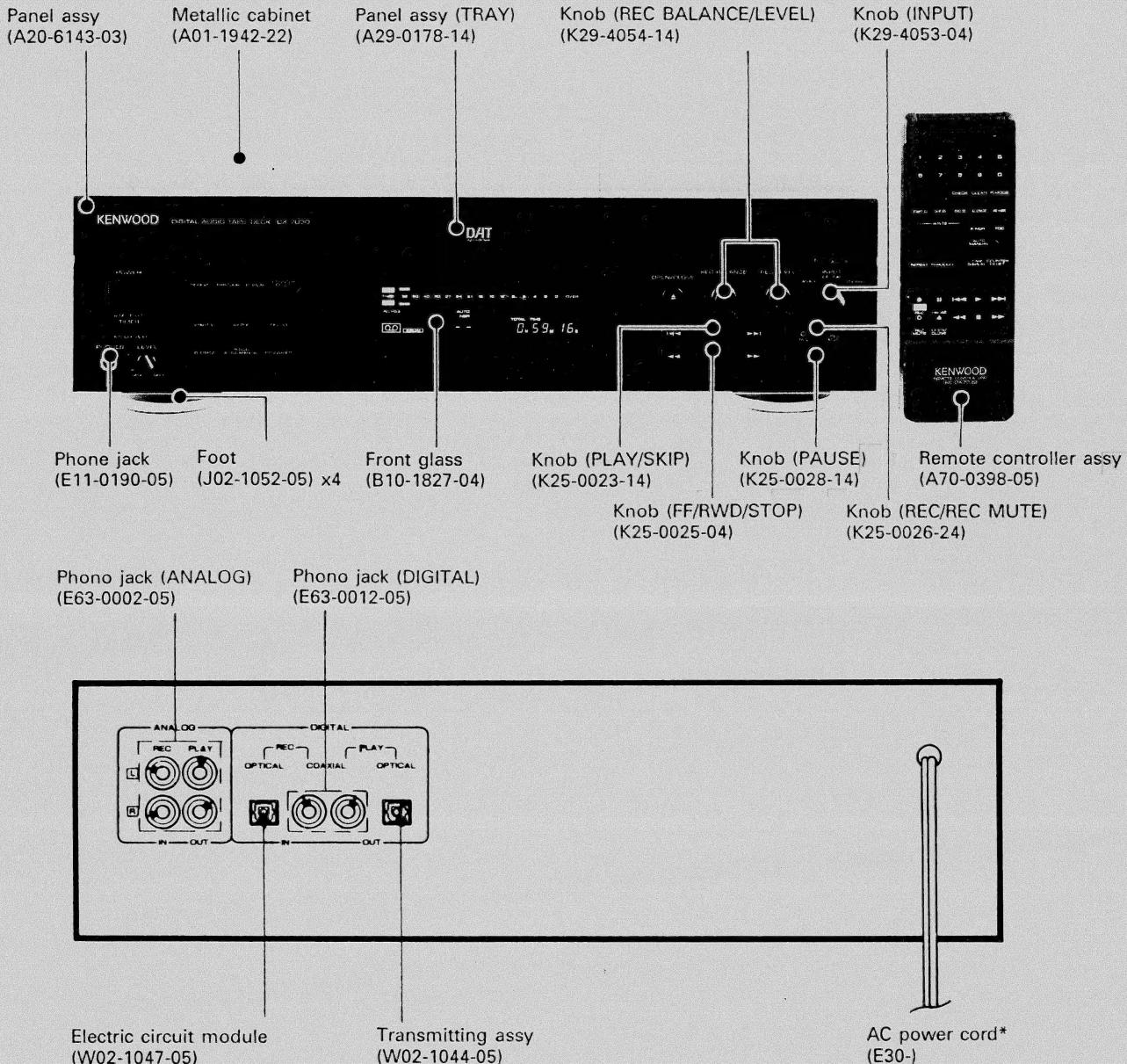


SERV. 32 640
DIGITAL AUDIO TAPE DECK
DX-7030

SERVICE MANUAL

KENWOOD

© 1991-2 PRINTED IN JAPAN
B51-4249-00 (O) 3753



* About circuit descriptions, refer to service manual (B51-4327-00).

* Refer to parts list on page 46.

CONTENTS/ACCESSORIES

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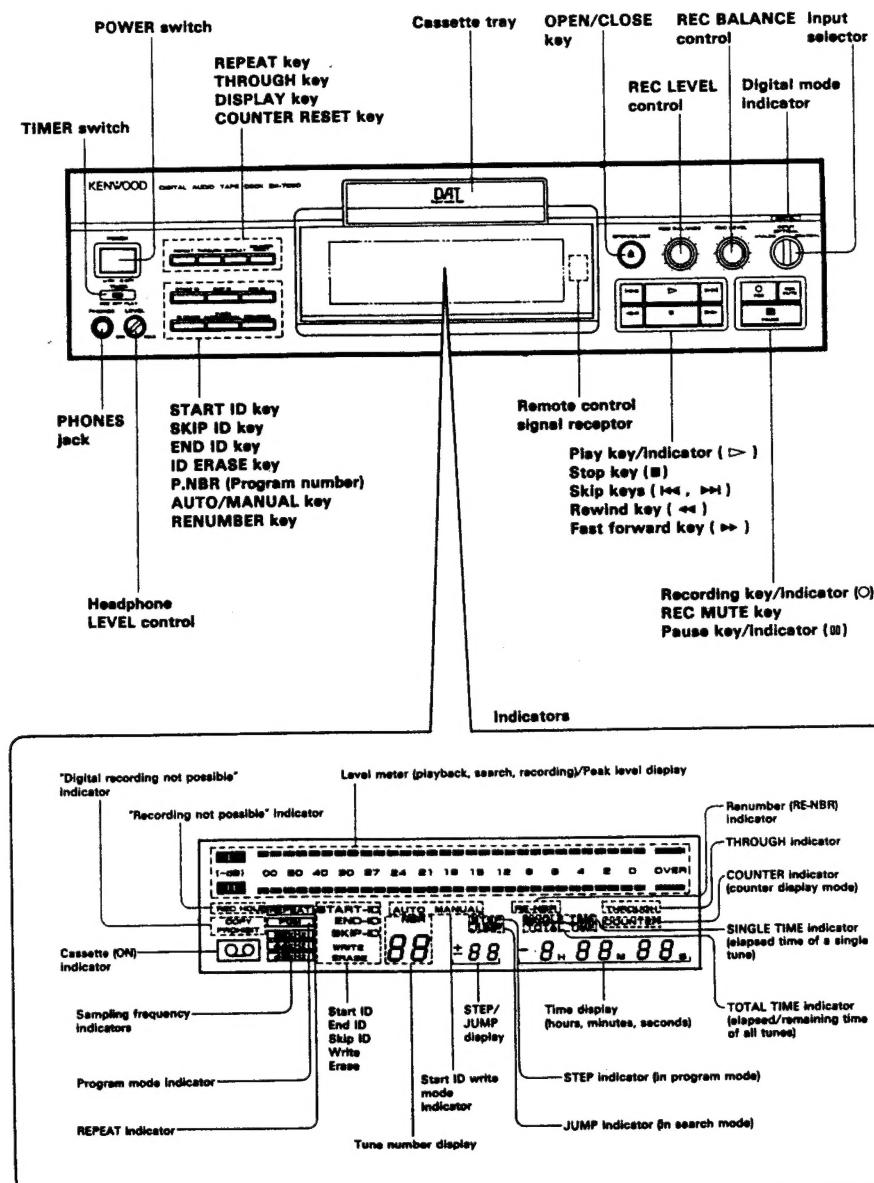
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SPECIFICATIONS	BACK COVER

Accessories

• Audio cord 2 (E30-0505-05)	• Remote control unit 1 (A70-0398-05)
	

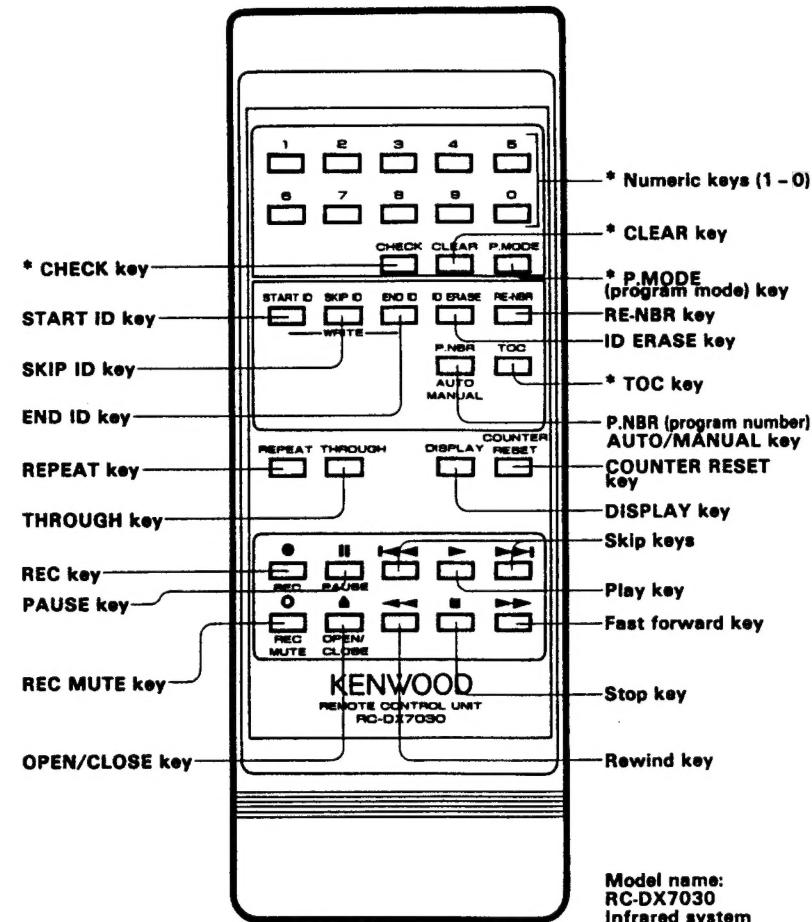
• Battery ("AA" or "R6") 2 (-)	• Digital cords 2 (E30-2365-05)
	

CONTROLS



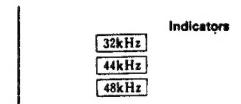
REMOTE CONTROL OPERATION

• Keys marked with an asterisk (*) are provided only on the remote control unit.



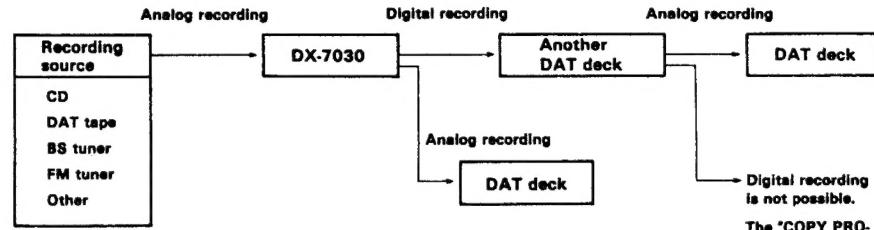
RECORDING DESCRIPTION

Sampling frequency
The sampling frequency is the division frequency used when an analog waveform is converted to digital.
The sampling frequency indicators light up according to the sampling frequency of the current input source.
32kHz: When a BS tuner is recorded or played in A mode; long playback DAT tapes
44kHz: When CDs or DAT music tapes are recorded or played
48kHz: When a BS tuner is recorded or played in B mode; when recording from an analog signal

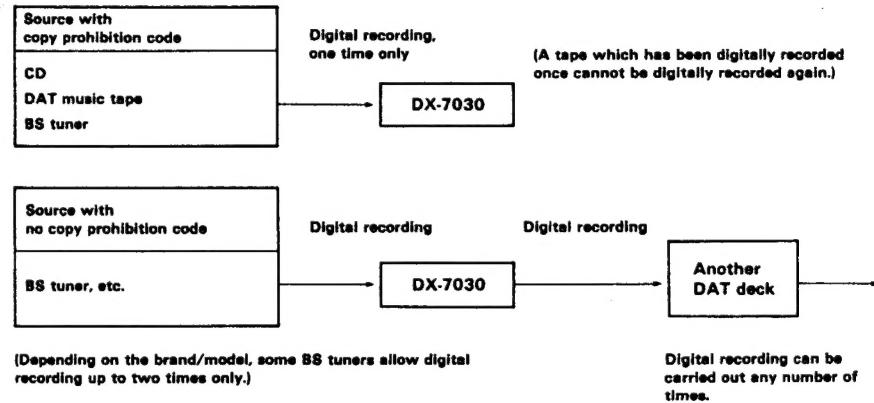


Copy prohibition code (SCMS: Serial Copy Management System)
Sources which contain a copy prohibition code can be recorded only once.

When recording from an analog signal
Analog input sources do not contain copy prohibition codes and can be recorded as many times as desired.



When recording from a digital source

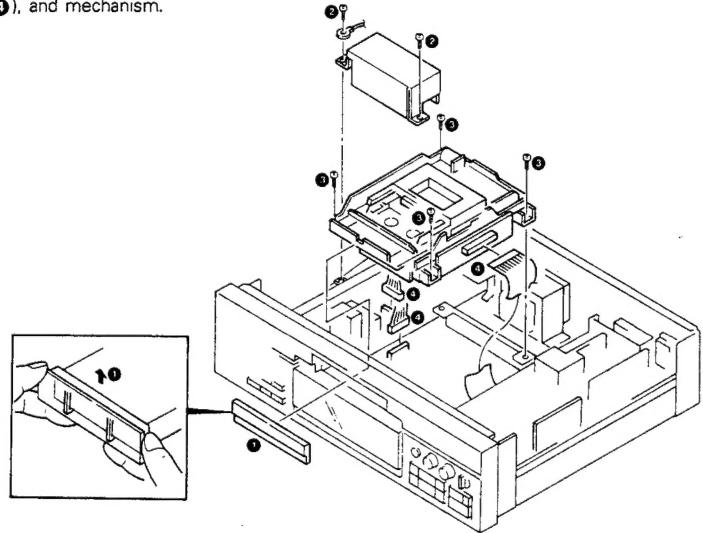


DX-7030

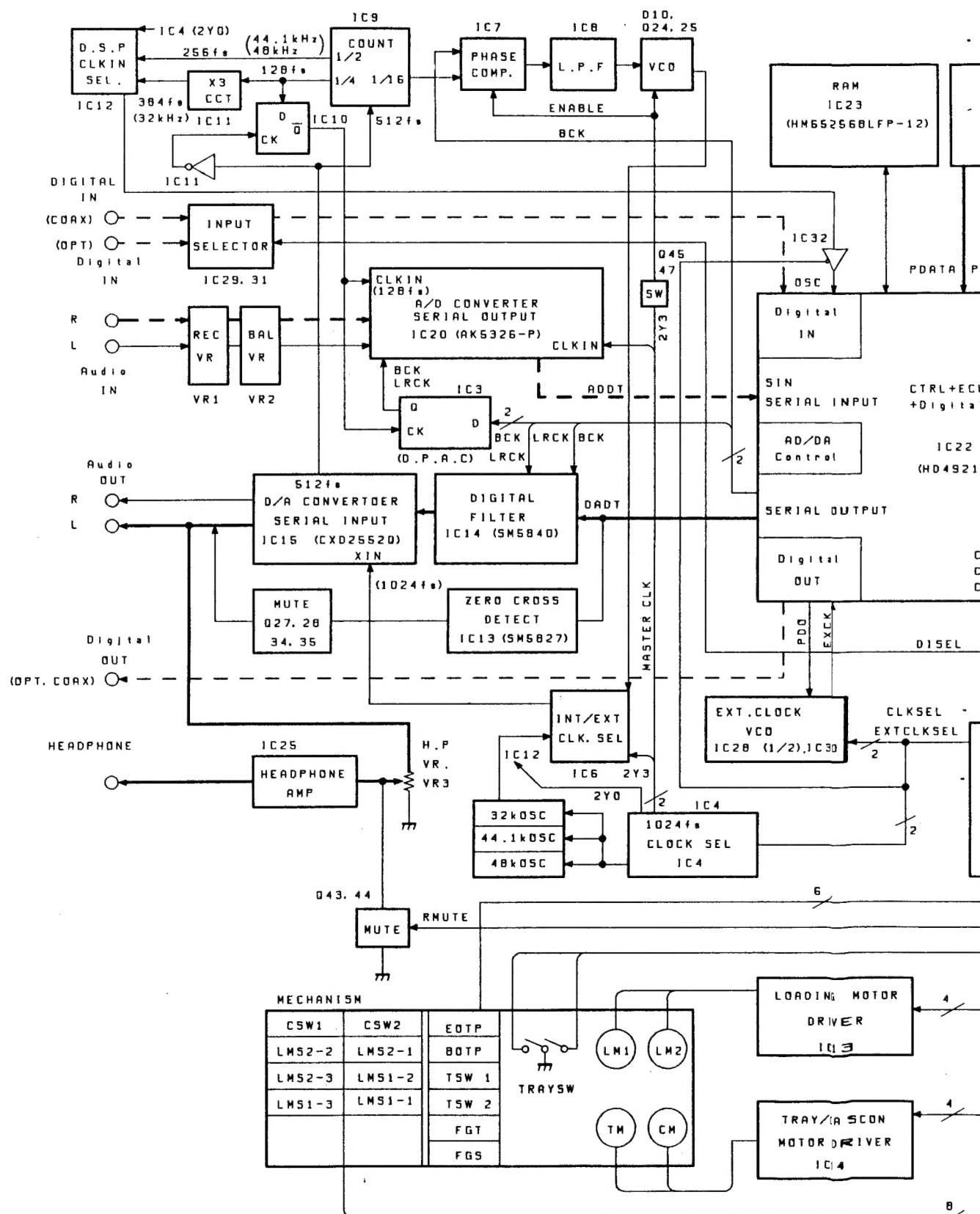
DISASSEMBLY FOR REPAIR

How to Disassemble Mechanism

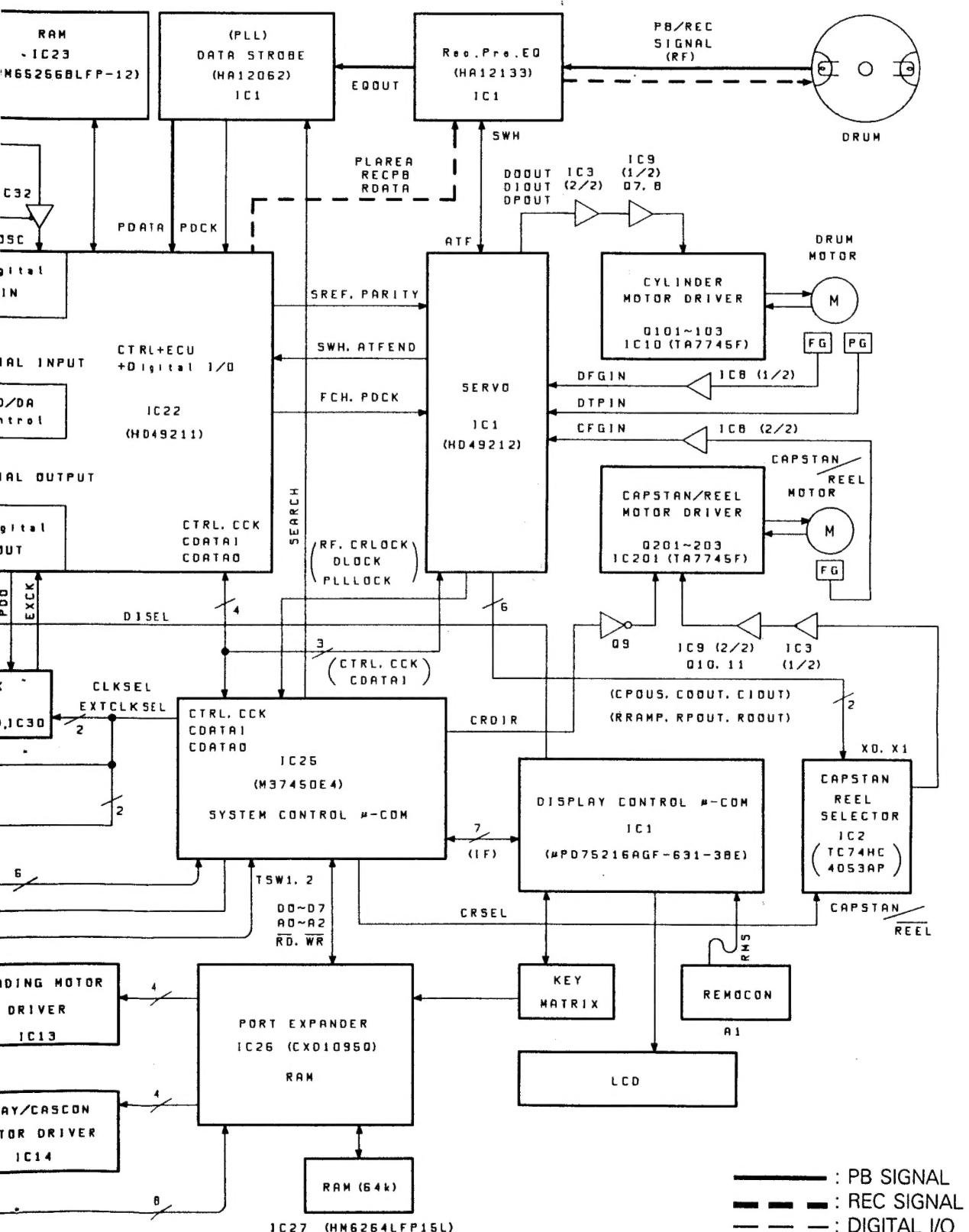
1. Remove the tray panel (①).
2. Remove 2 screws (②), and shield cover.
3. Remove 4 screws (③).
4. Remove 3 connectors (④), and mechanism.



DX-7030 D BLOCK DIAGRAM



30 DX-7030 BLOCK DIAGRAM



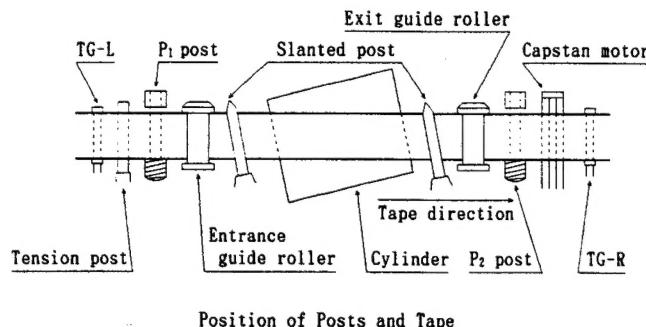
ADJUSTMENT (MECHANISM)

ADJUSTMENT (MECHANISM)

ADJUSTING THE MECHANISM

Tape Run Post System

The tape run post system consists of nine posts, cylinder, and capstan motor shown in the figure below. The capstan motor runs the tape at a constant speed and the tape runs steadily along the nine posts.



Preparing for Adjustment

1. Checking the height of the guide roller

No adjustment is necessary unless the tape edges are wrinkled or folded. No adjustment is necessary unless the RF waveform is correct as shown in the figure.

2. Connection points of the measuring instrument

Connect the oscilloscope as follows:

CH1: CN7 pin 3 (RF)

CH2: CN8 pin 6 (SWH)

Trigger: Use the CH2 SWH. SWH "L" → Ach, "H" → Bch

3. Load the test tape TY7251 for the adjustment.

4. Turn on the test mode switch (S1) on the X29 board.

Adjustment

1. Press the PLAY key and check the RF waveform. Check the parts that require adjustment. (To be adjusted in the entrance or exit?)
2. Press the AUTO/MANUAL key and set to MANUAL. (The ATF servo goes off, then.)
3. According to the adjustment guide, adjust the RF envelope of each waveform the correct waveform.

Envelope waveform

Adjustment guide	Tape floated		Tape sunk		Correct waveform
	Entrance	Exit	Entrance	Exit	

Note: Dot lines indicate the envelope waveform when the tape floats or sinks significantly.

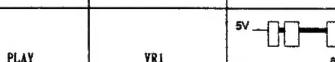
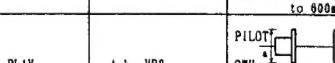
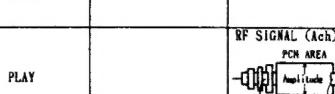
After adjustment, lock the guide rollers with the guide roller clamp screw (in the unloading status).

Play the tape again and check for any changes in the envelope waveform.

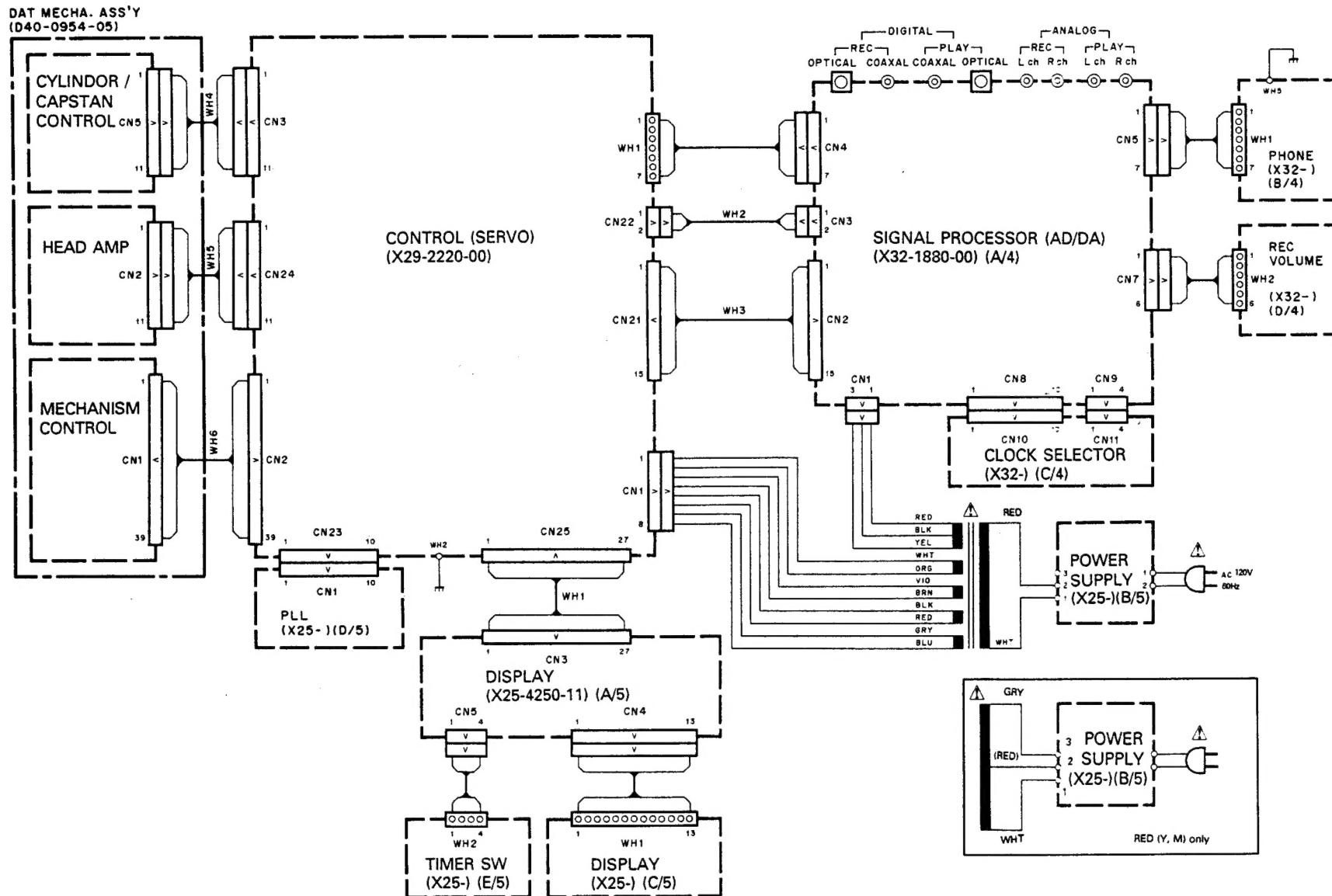
First, adjust the entrance guide roller to flatten the RF envelope. Next, adjust the exit guide roller.

4. After adjustment, press the OPEN/CLOSE button to reload and press the PLAY key again. Confirm the RF envelope waveform is correct.

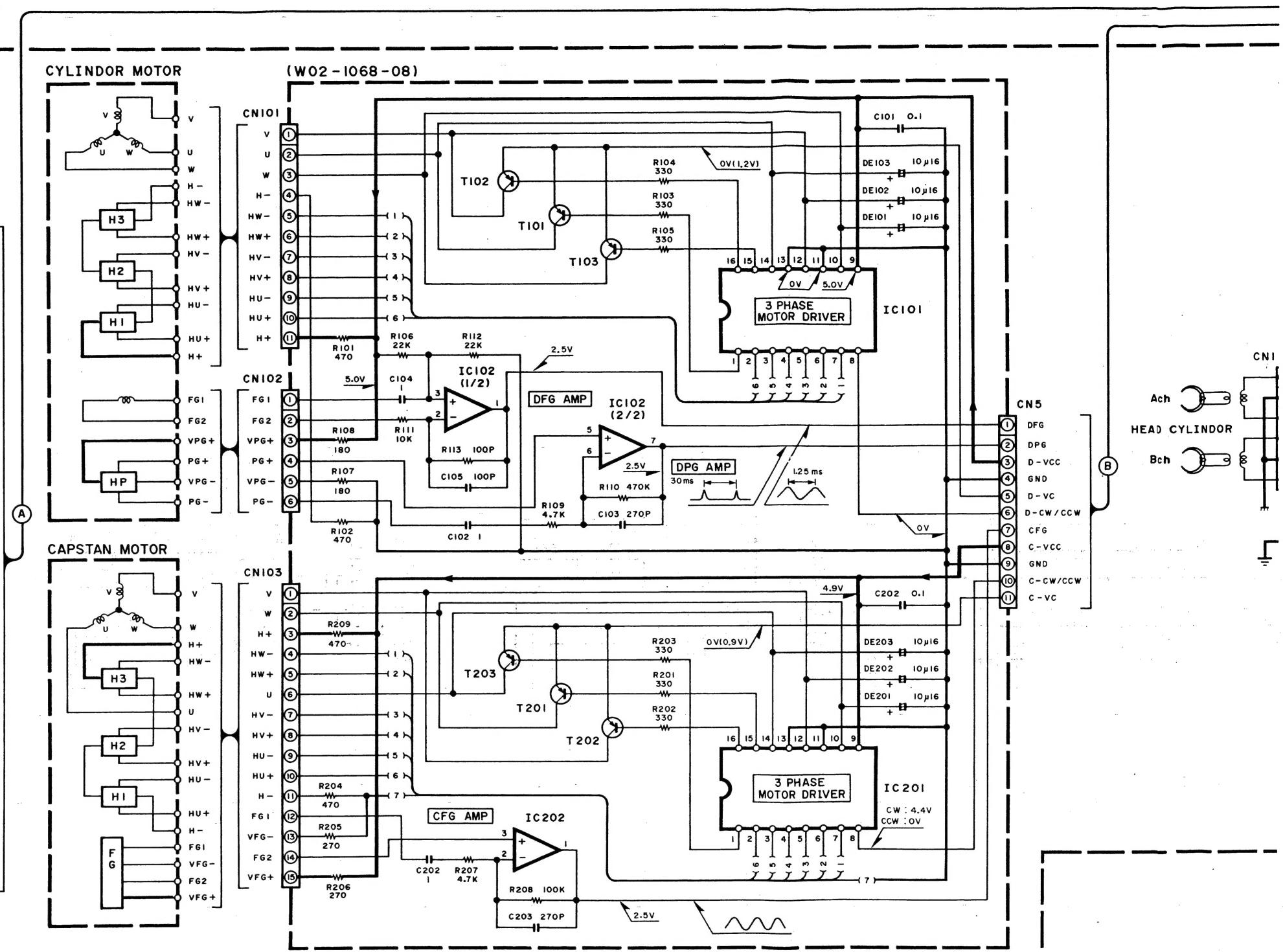
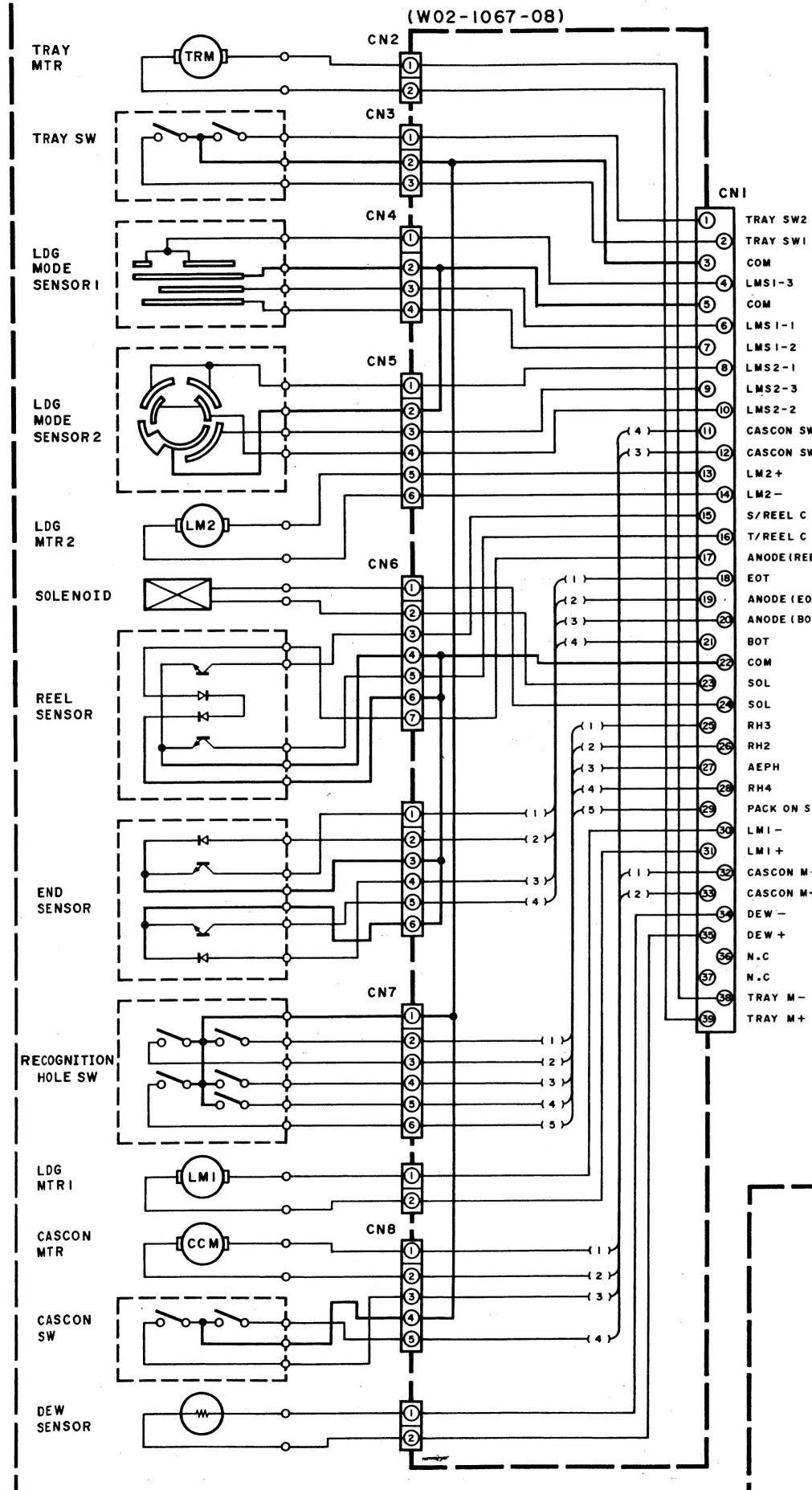
ADJUSTMENT (CIRCUIT)

No.	ITEM	INPUT SETTING	OUTPUT SETTING	SETTING	ALIGNMENT POINT	ALIGN FOR	FIG.
1	PLL FREE RUN FREQUENCY ADJ.	—	X25-4250-00 Connect CN2-4 (EQ) to GND. Connect FREQ. counter to CN2-2 (PCLK).	STOP	L1	8.35MHz	
2	RPDT LEVEL	TY-7111 (LEVEL TAPE)	X29-2220-00 (1/2) Connect an oscilloscope as follows: CH1: CM6-1 (RPDT) (DC Coupled) CH2: CM8-6 (SWH) (DC Coupled)	PLAY	VRI		
3	ATF GAIN	TY-7111 (LEVEL TAPE)	X29-2220-00 (1/2) Connect an oscilloscope as follows: CH1: CM7-1 (PILOT) (AC Coupled) CH2: CM8-6 (SWH) (DC Coupled)	PLAY	Ach: VR3 Bch: VR4		
4	TACH PULSE	TY-7251 (TRACKING)	X29-2220-00 (1/2) Connect an oscilloscope as follows: CH1: CM8-4 (TACH) (DC Coupled) CH2: CM8-6 (SWH) (DC Coupled)	PLAY	VR2		
5	EQ ADJ	TY-7551 (FUNCTION)	X29-2220-00 (2/2) Connect an oscilloscope as follows: CH1: CM28-3 (FLAG) (DC Coupled)	PLAY	(RF unit of mechanism) VR5	Optimum eye pattern or minimum pulse of "H" level.	
6	VCO(DIGITAL IN PLL)	Non-Recorded tape. Connect DIGITAL SG (or CD player with DIGITAL-OUT) set to $f_s = 44.1\text{kHz}$ to DIGITAL IN	X32-1880-00 Connect an AC voltmeter to CN12-FC.	TEST MODE ↓ RECORD	L1	$1.5 \pm 0.2\text{V}$	
7	RECORDING CURRENT (PCM 1.5MHz)	TEST TAPE TY-7111 (LEVEL)	X29-2220-00 (1/2) Connect an oscilloscope as follows: CH1: CM7-3 (RF) (AC Coupled) CH2: CM8-6 (SWH) (DC Coupled) Trigger: CH2	PLAY			
7	RECORDING CURRENT (PCM 1.5MHz)	BLANK TAPE	X29-2220-00 (1/2) Connect an oscilloscope as follows: CH1: CM7-3 (RF) (AC Coupled) CH2: CM8-6 (SWH) (DC Coupled) Trigger: CH2 If adjust Bch, set trigger to (-) positive.	REC ↓ REW ↓ PLAY	Ach: VR2 Bch: VR1 (RF unit of mechanism)	Adjust PCM area's amplitude to the same one in playback and recording repeatedly.	
8	RECORDING CURRENT (PILOT 130kHz)	TEST TAPE TY-7111 (LEVEL)	X29-2220-00 (1/2) Connect an oscilloscope as follows: CH1: CM7-1 (PILOT) (AC Coupled) CH2: CM8-6 (SWH) (DC Coupled) Trigger: CH2	PLAY			
8	RECORDING CURRENT (PILOT 130kHz)	BLANK TAPE	X29-2220-00 (1/2) Connect an oscilloscope as follows: CH1: CM7-1 (PILOT) (AC Coupled) CH2: CM8-6 (SWH) (DC Coupled) Trigger: CH2 If adjust Bch, set trigger to (+) positive.	REC ↓ REW ↓ PLAY	Ach: VR4 Bch: VR3 (RF unit of mechanism)	Adjust amplitude of pilot levels to the same in playback and recording repeatedly.	

* Connect an oscilloscope CH2 to SWH terminal for triggering while adjustment No.2 to 5.



DAT MECHA, ASS'Y (D40-0954-05)



IC101, 201 : TA7745F
IC102, 202 : μPC358

T101 ~ 103, 201 ~ 203 : 2SA1314

K

L

M

N

O

P

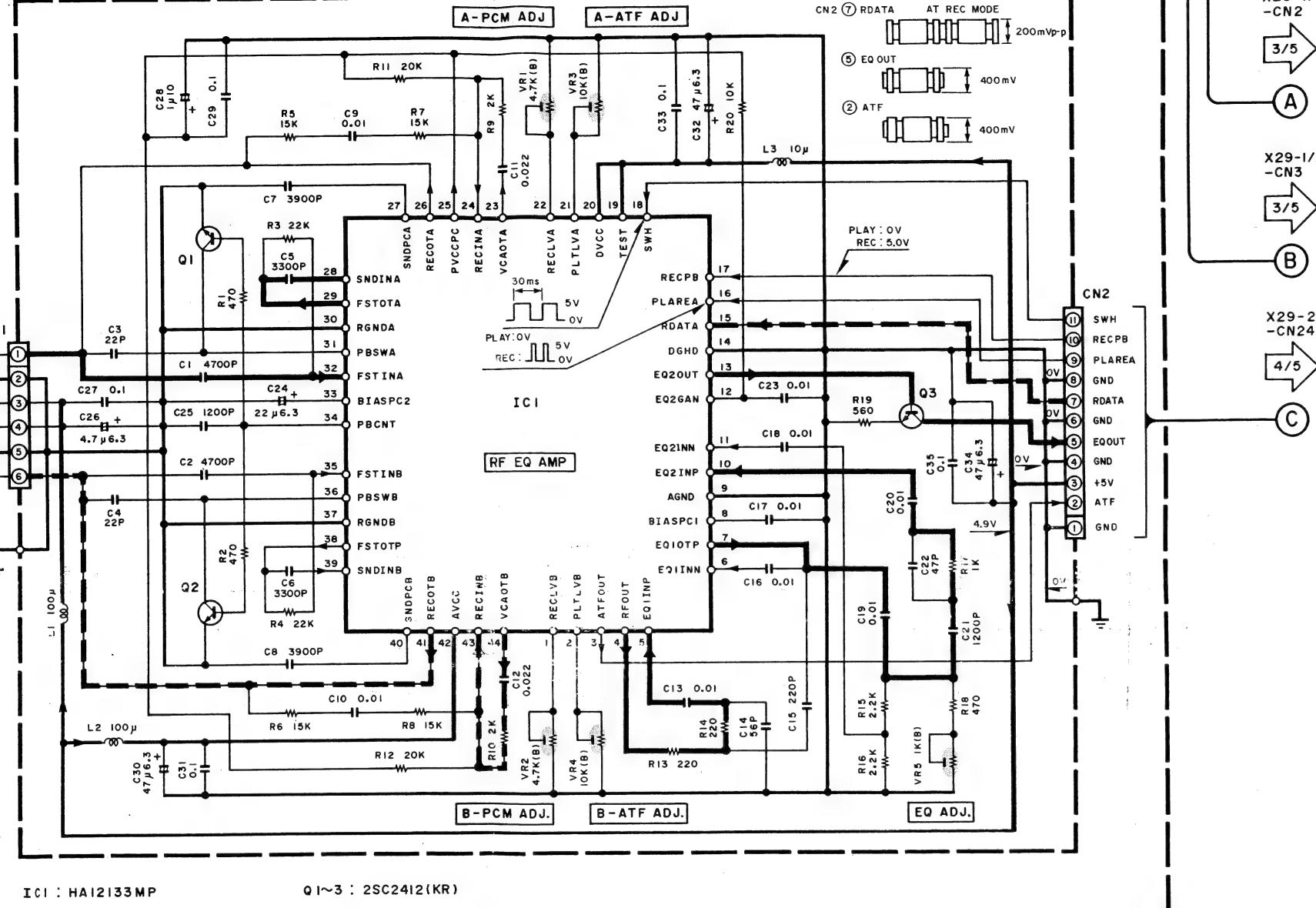
Q

R

S

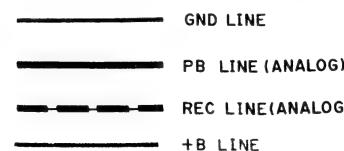
T

(W02-1073-08)



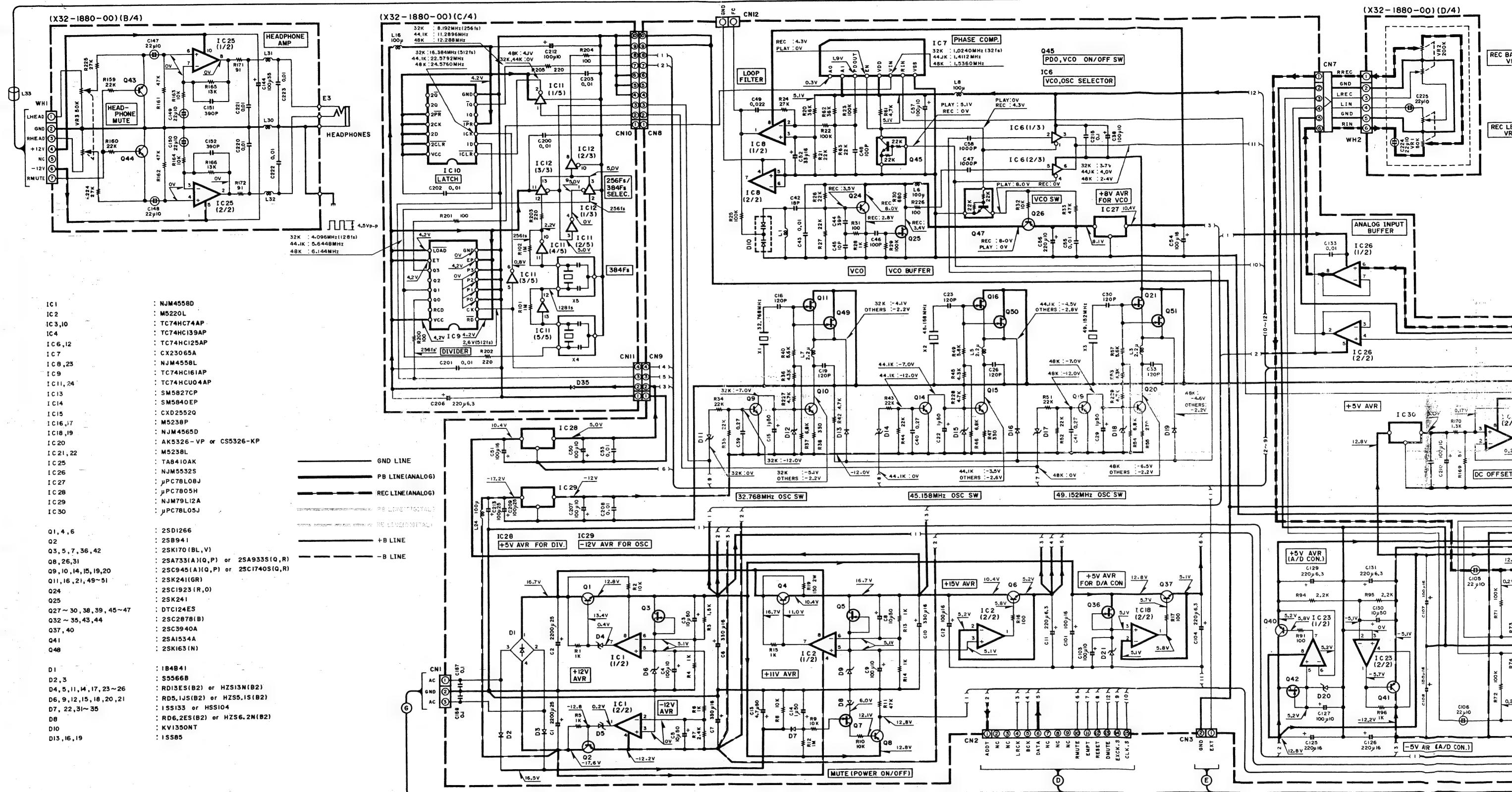
IC1 : HA12133MP

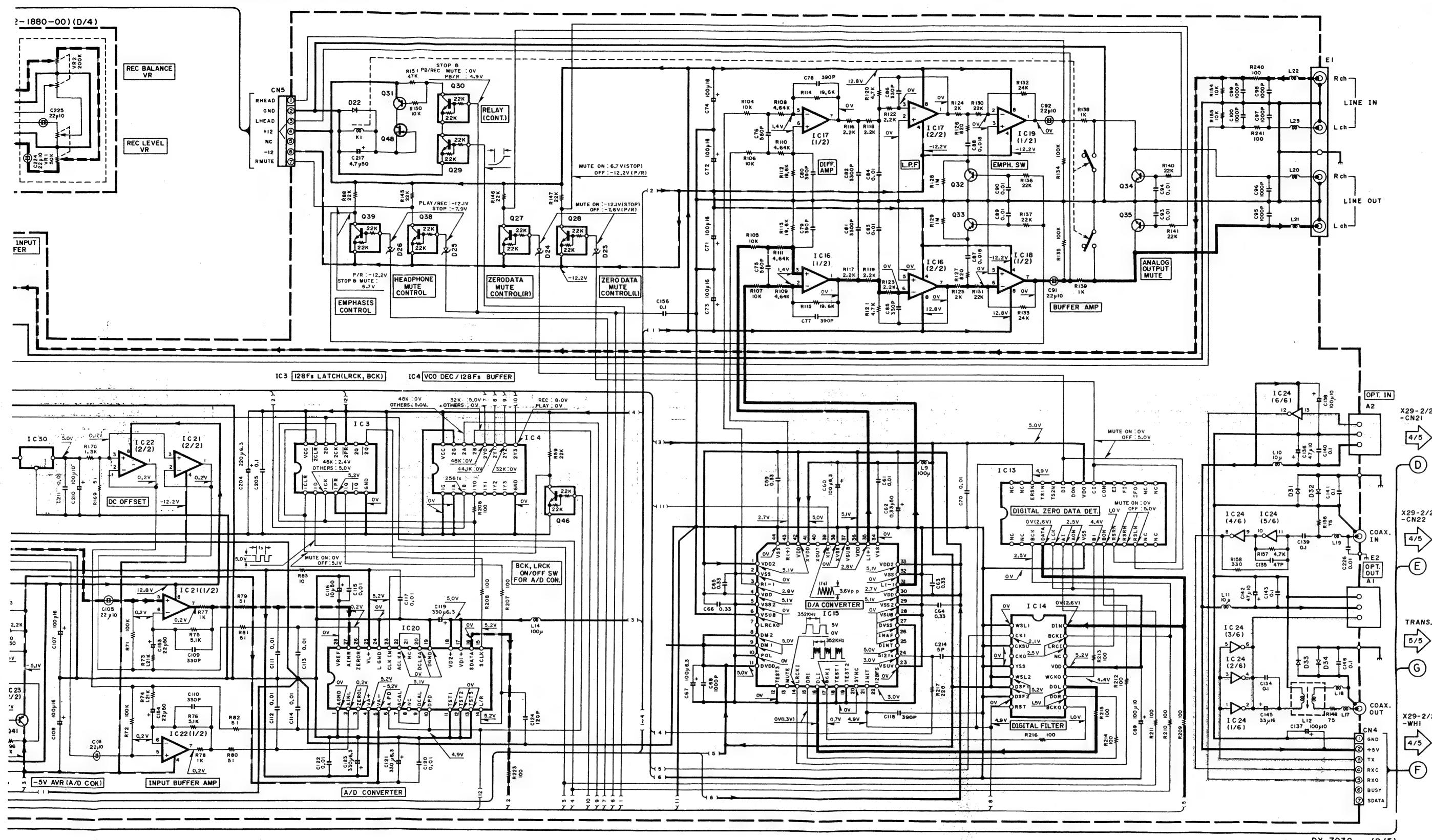
Q1~3 : 2SC2412(KR)



- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.



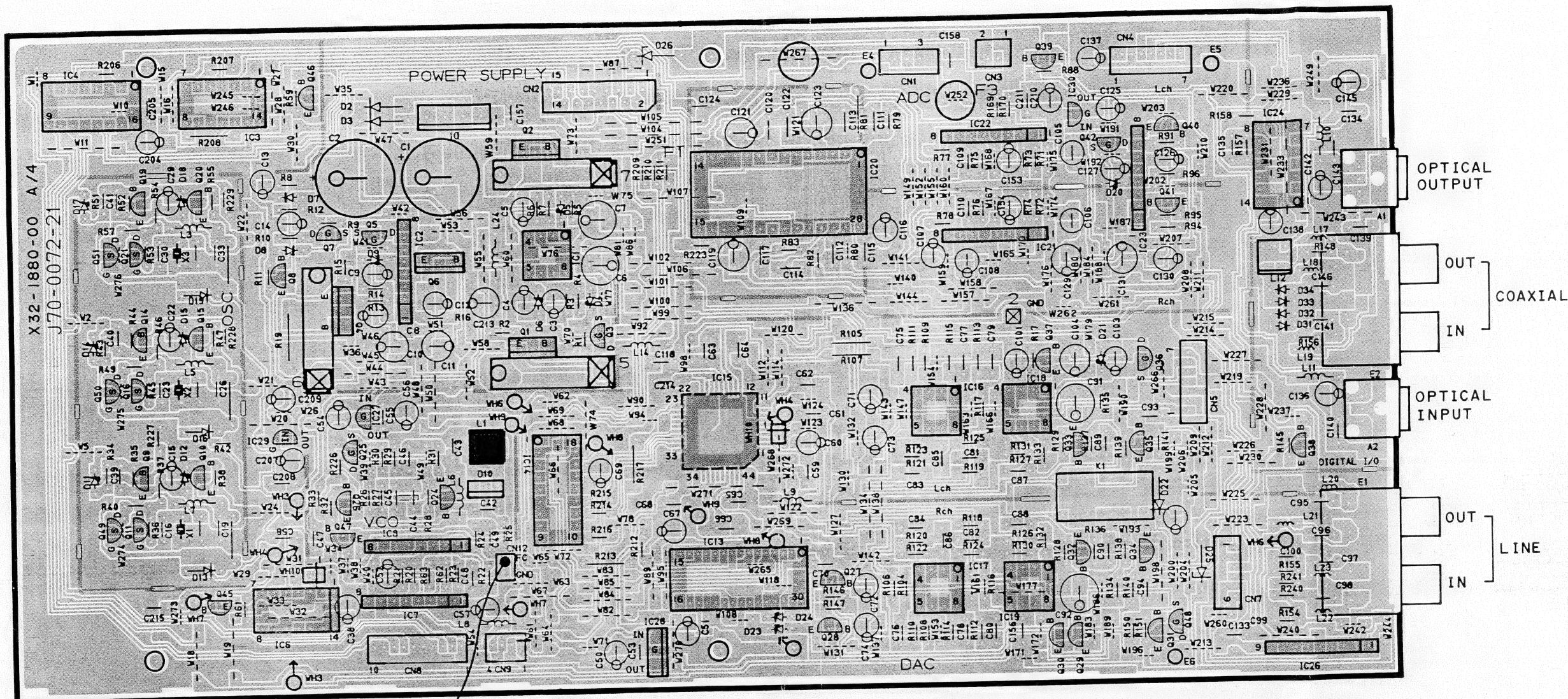


DX-7030 (2/5)

• DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

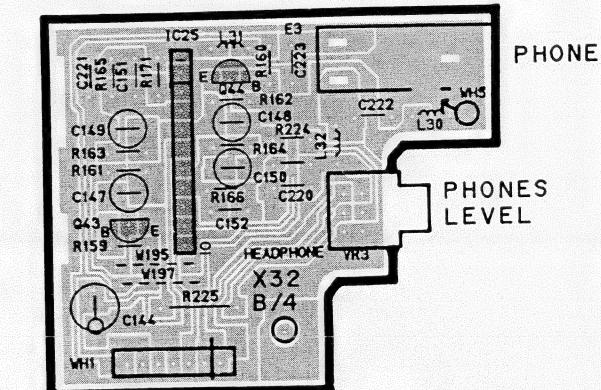
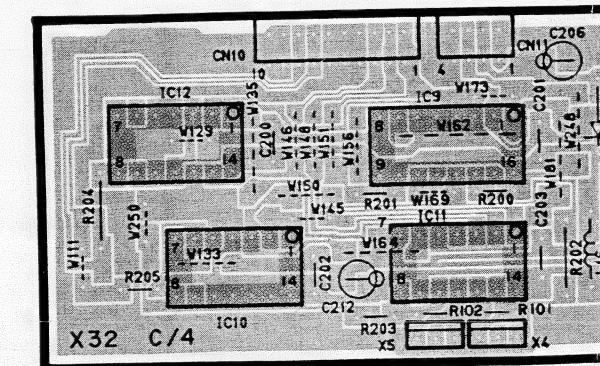
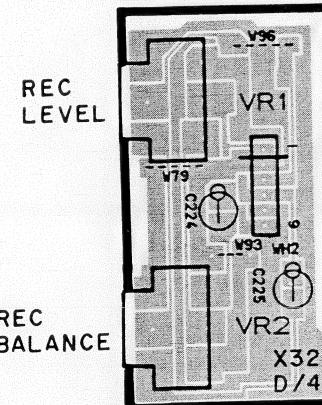
PC BOARD (COMPONENT SIDE VIEW)



AC voltmeter

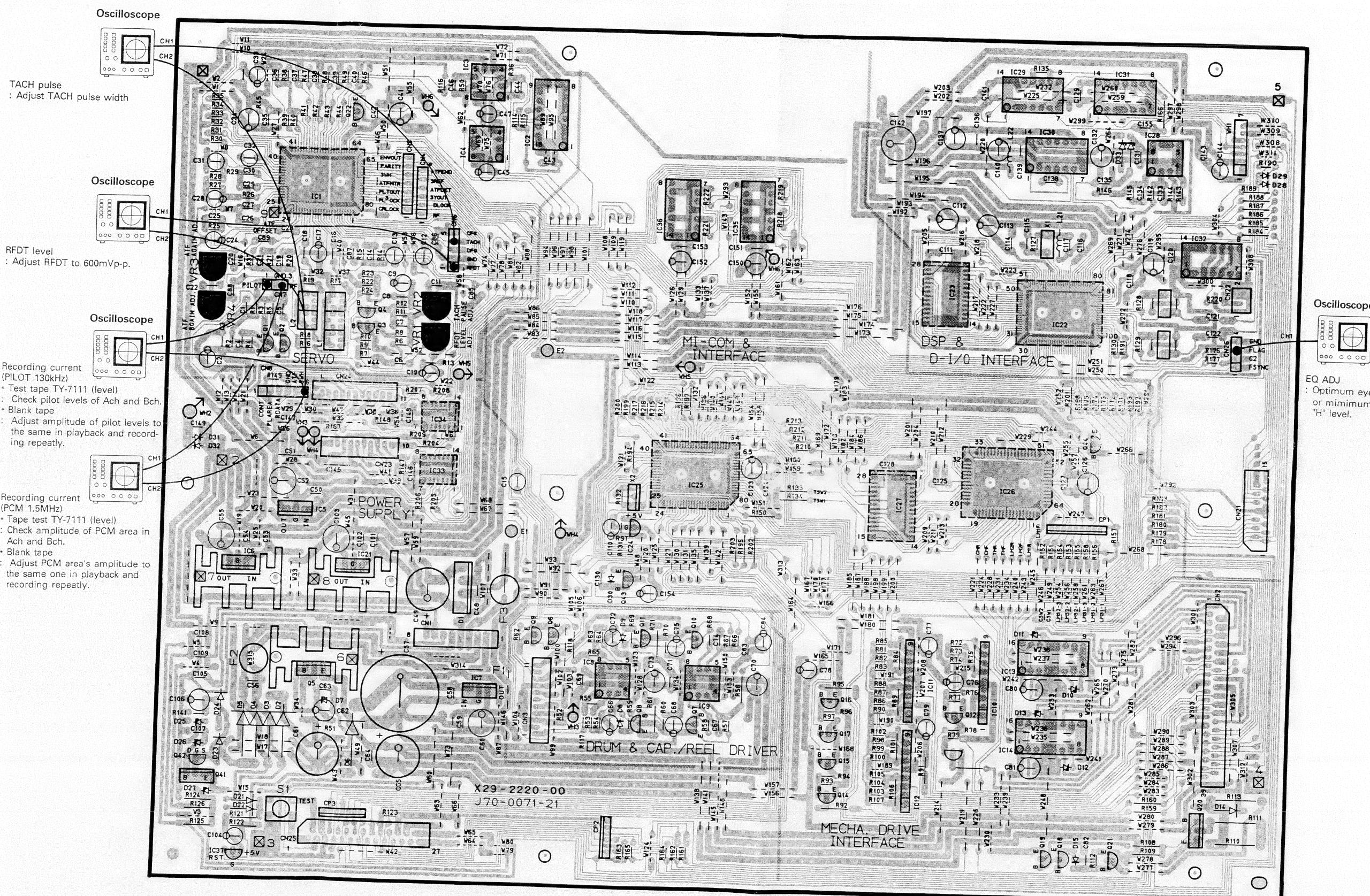


VCO (Digital in PLL) : 1.5 ± 0.1

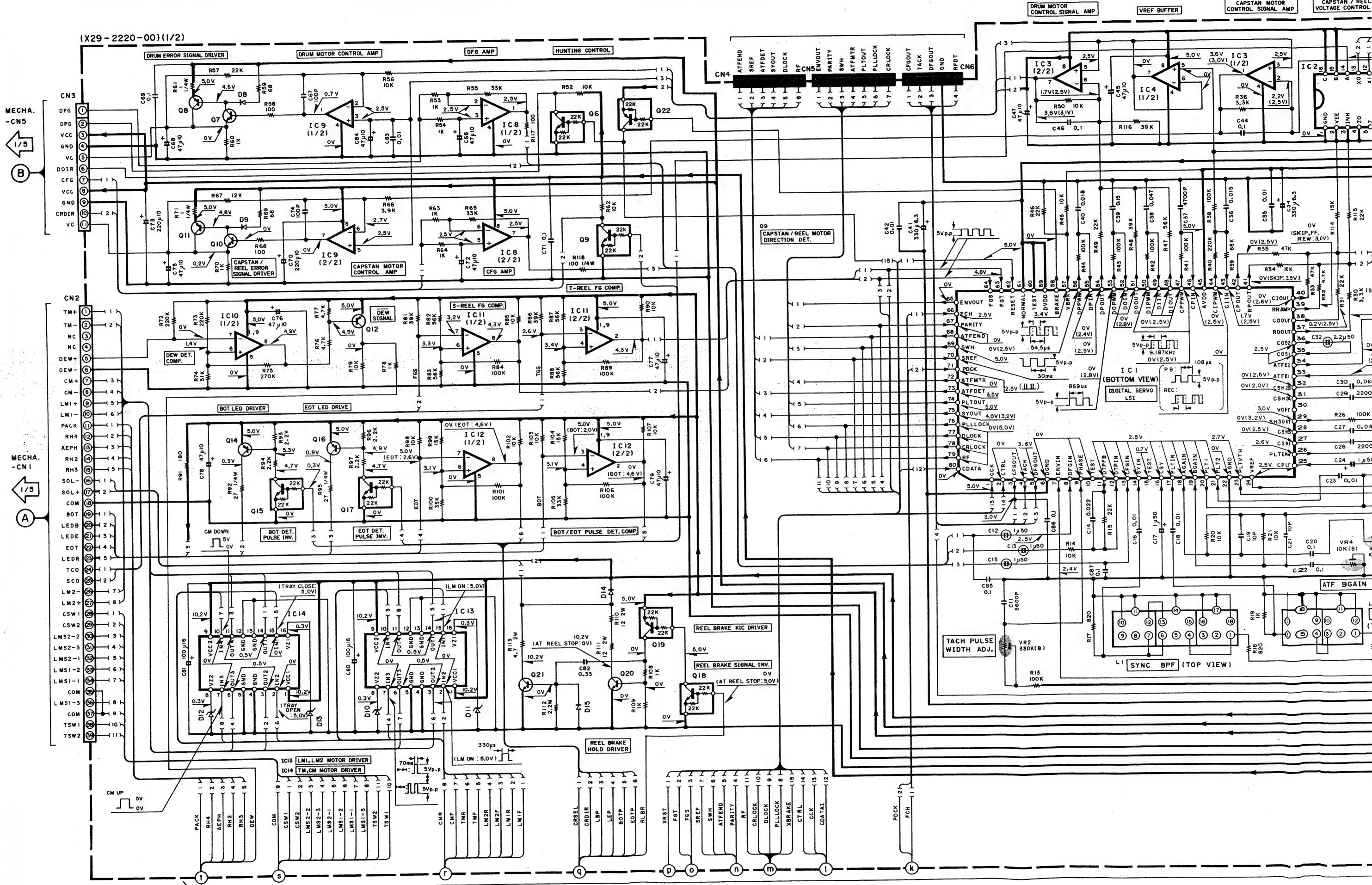


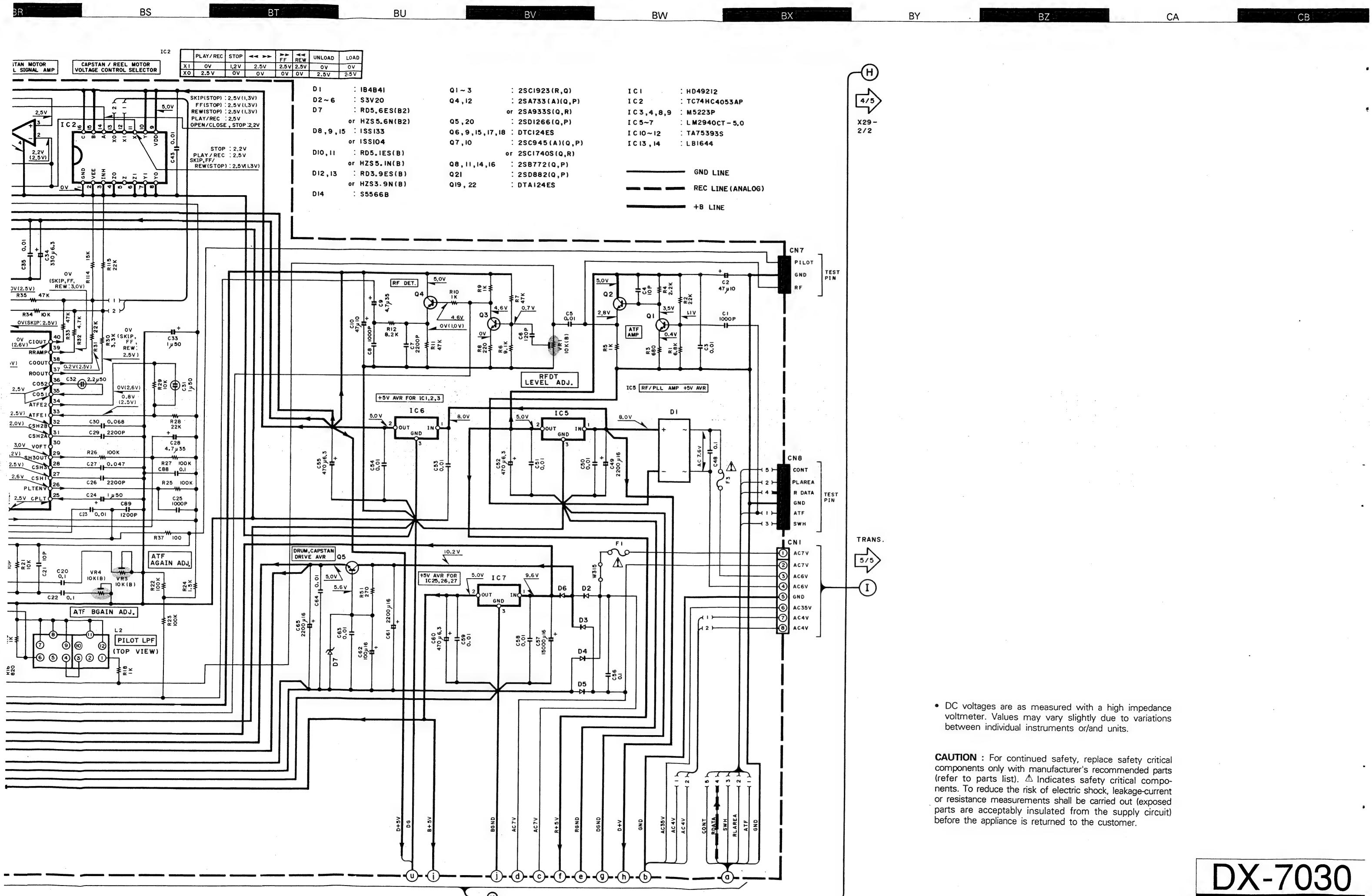
Refer to the schematic diagram for the values of resistors and capacitors.

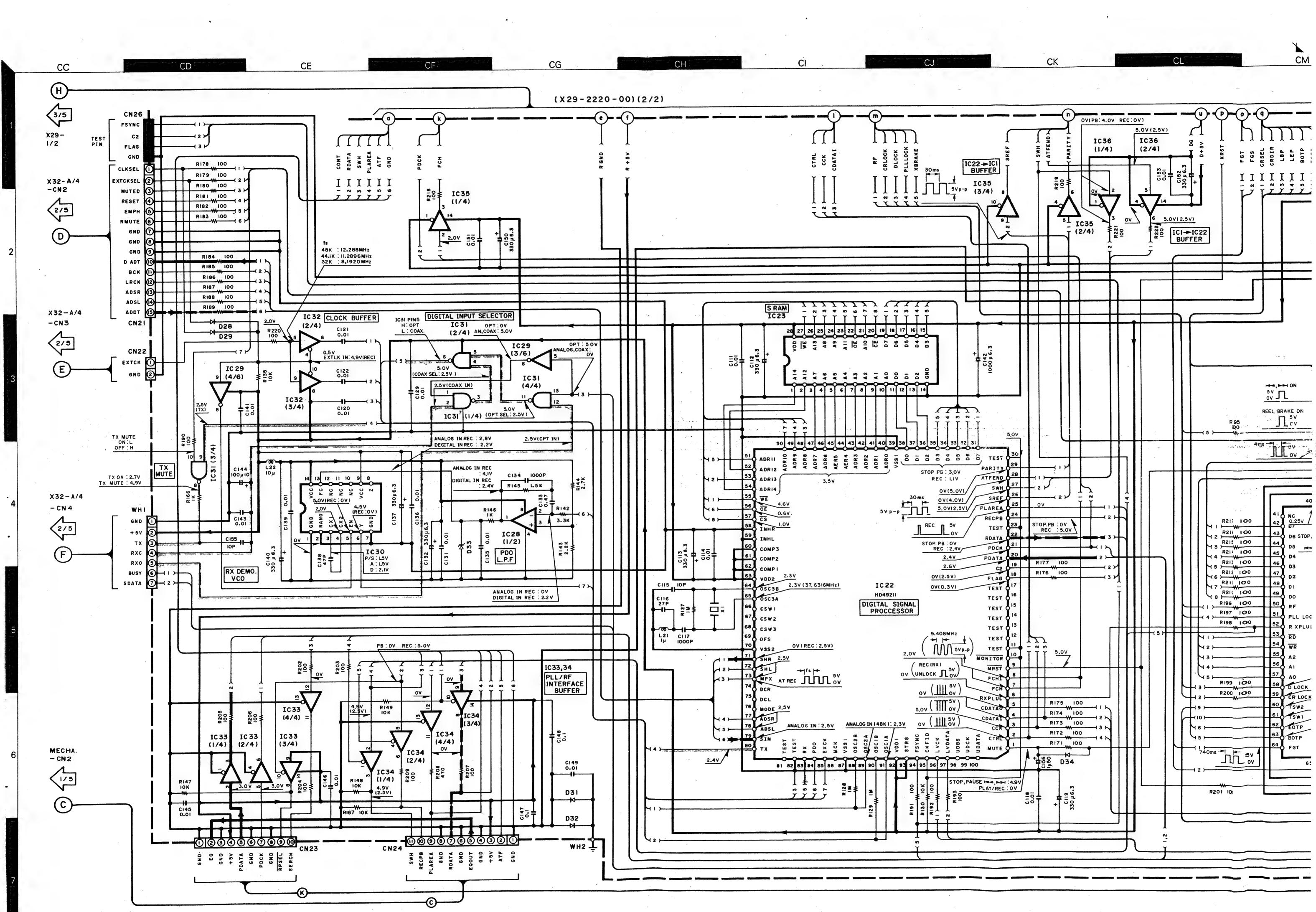
PC BOARD (COMPONENT SIDE VIEW)

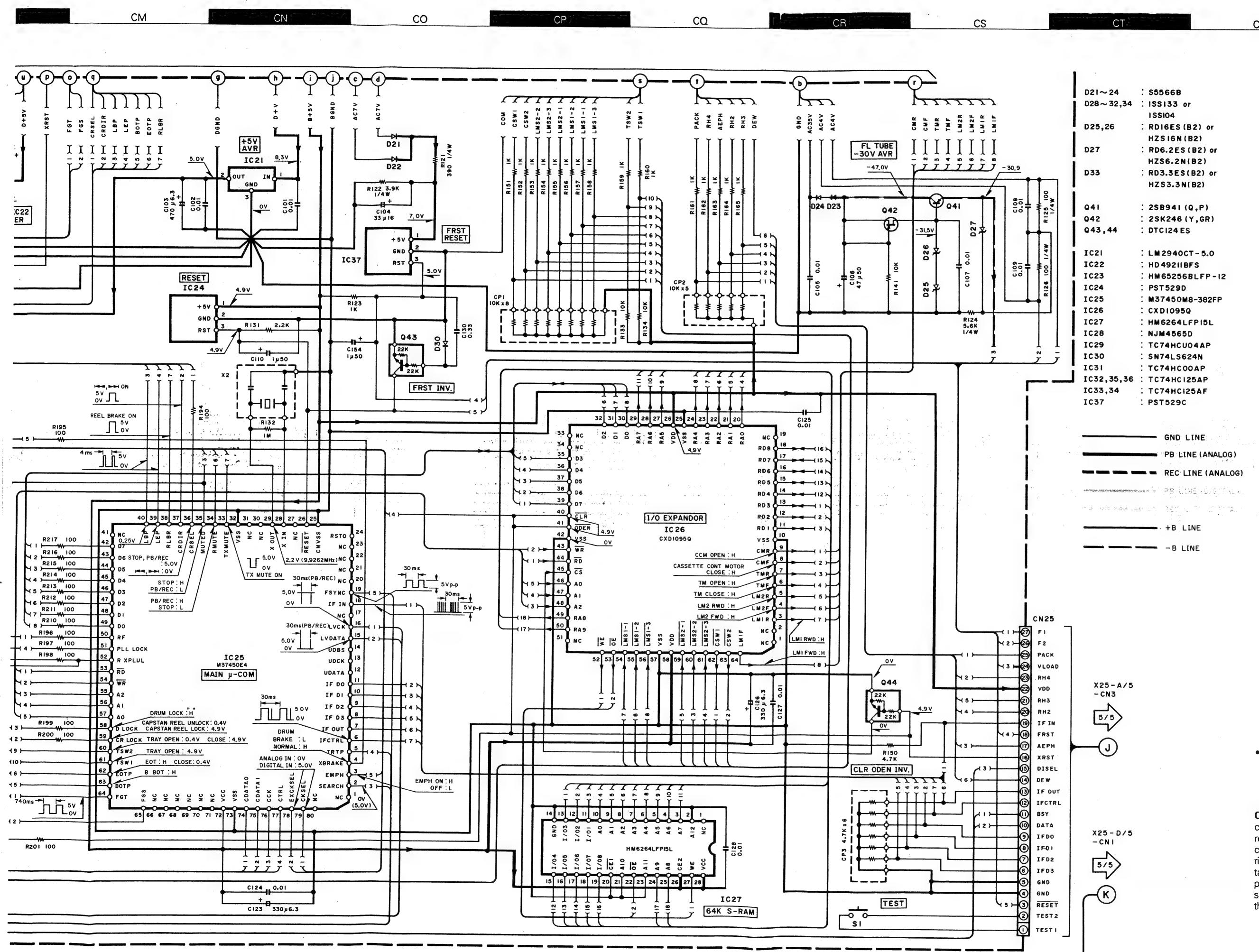


Refer to the schematic diagram for the values of resistors and capacitors.





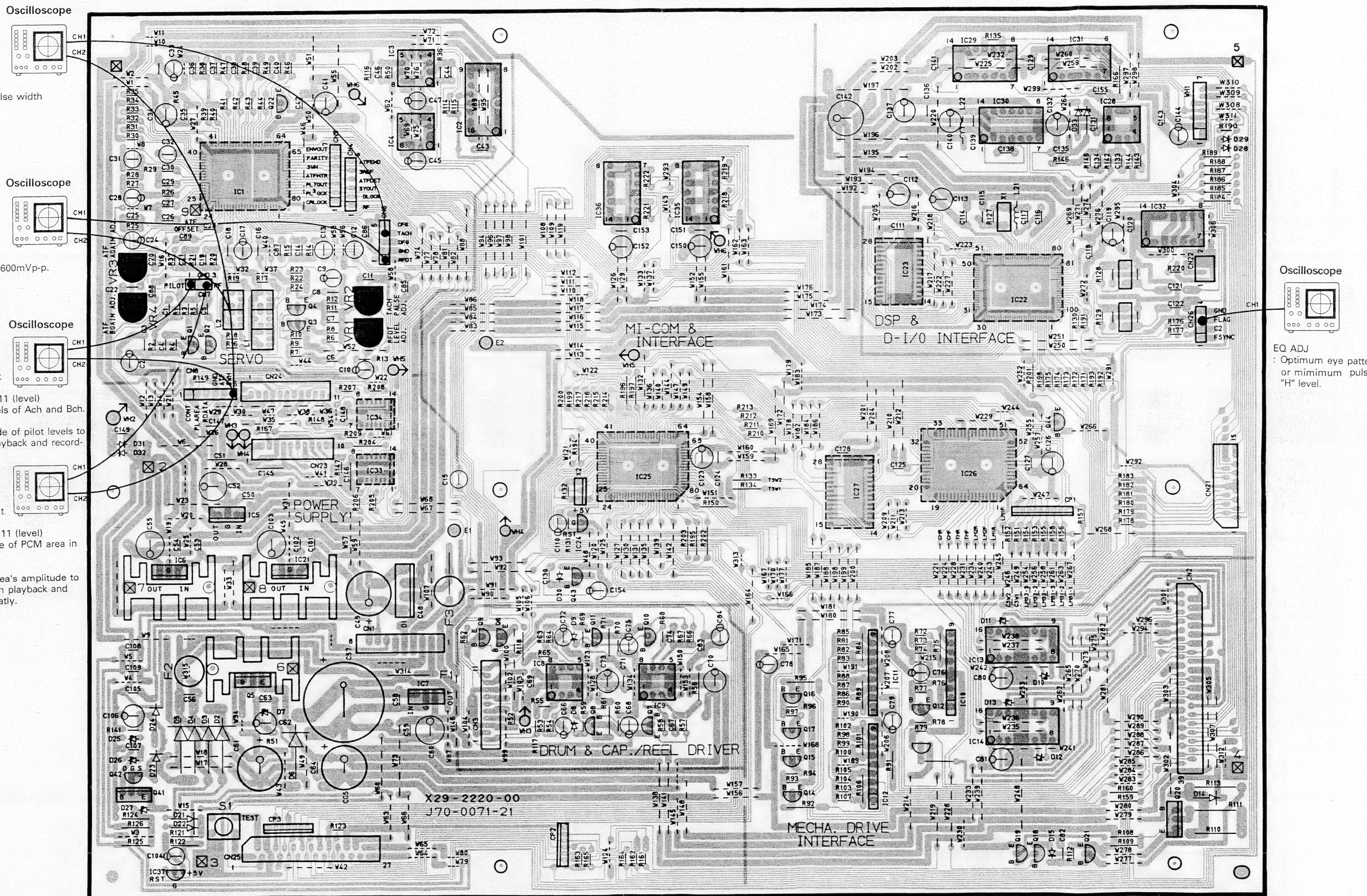




- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

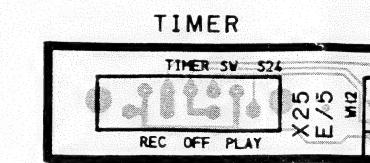
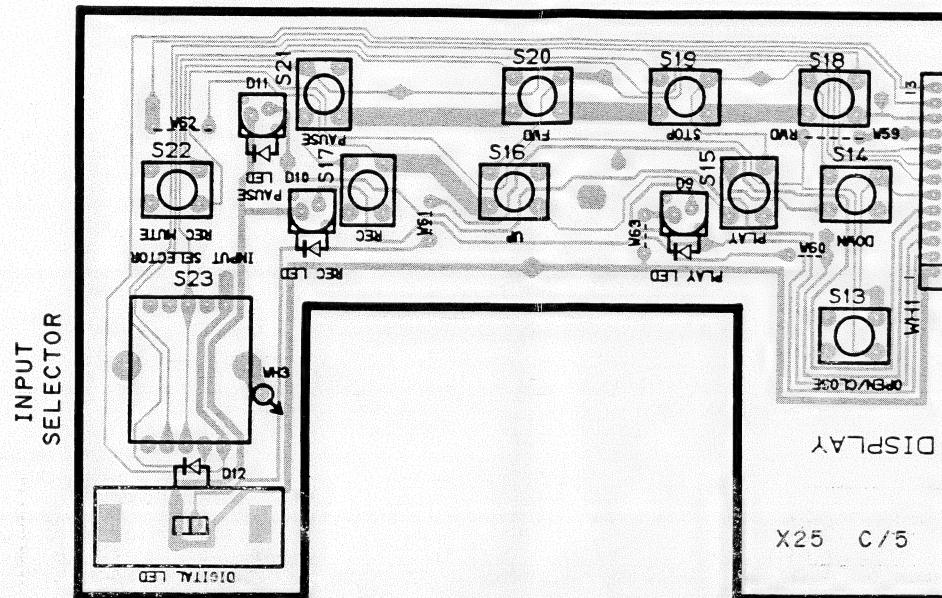
CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

PC BOARD (COMPONENT SIDE VIEW)



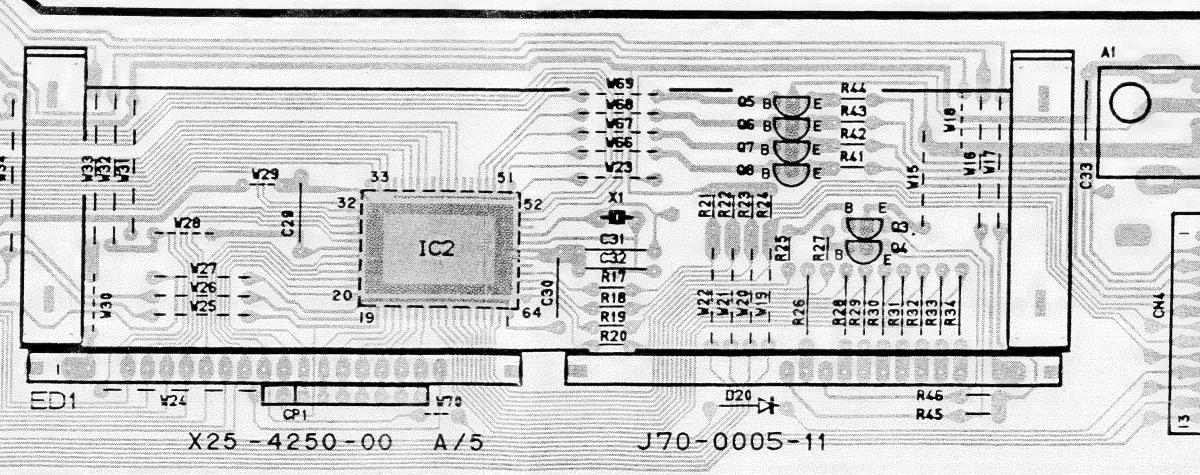
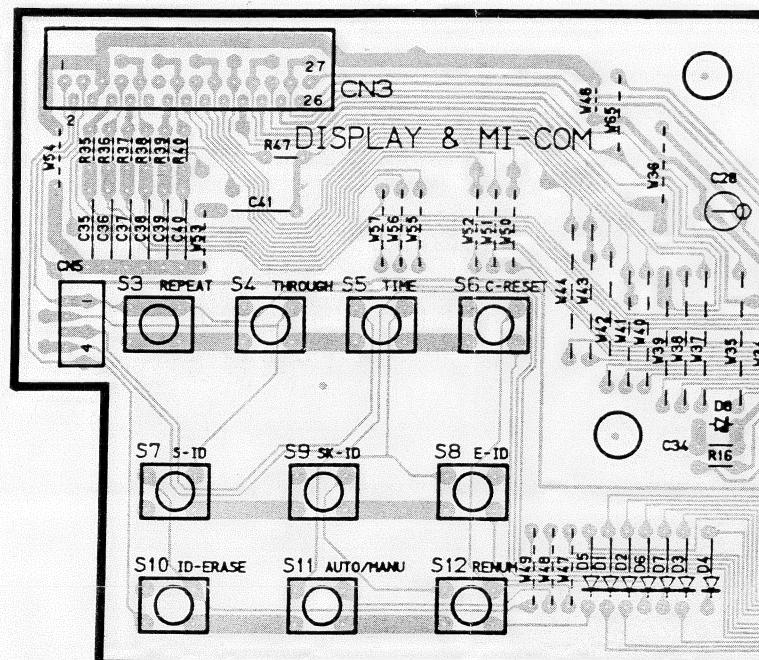
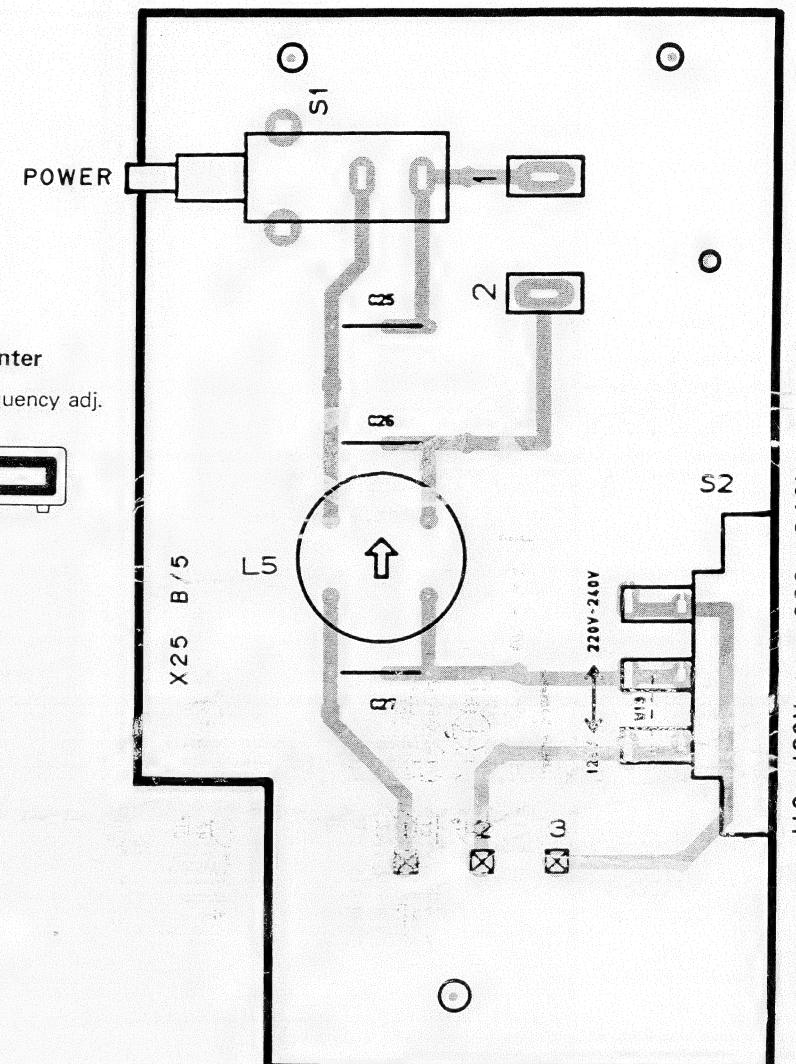
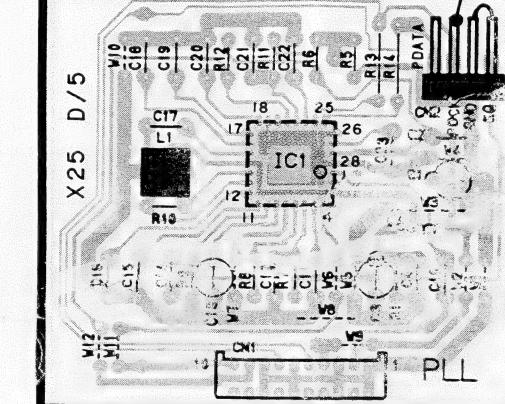
Refer to the schematic diagram for the values of resistors and capacitors.

PC BOARD (COMPONENT SIDE VIEW)

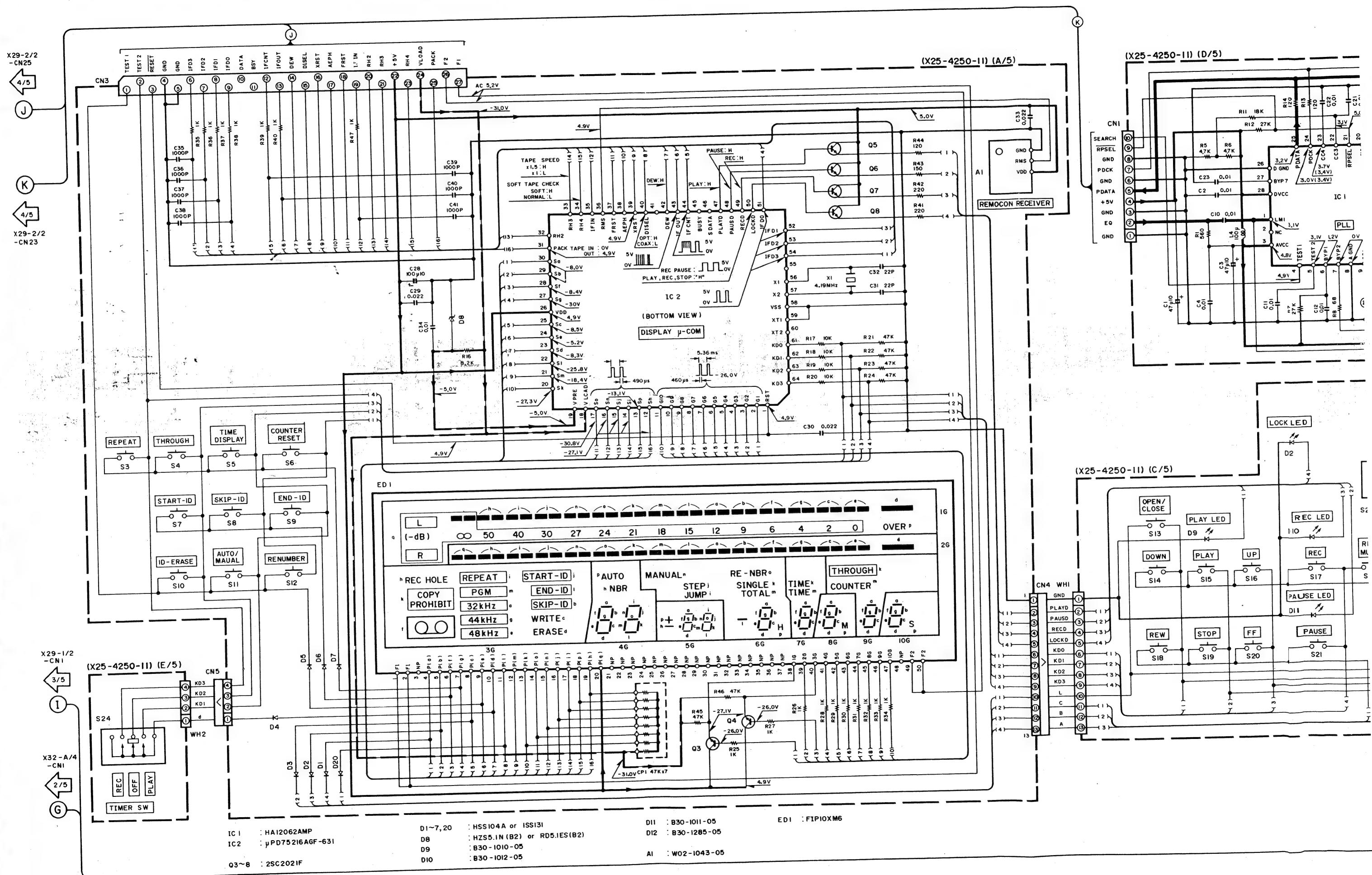


Frequency count

PLL free fun frequency
: 8.35MHZ

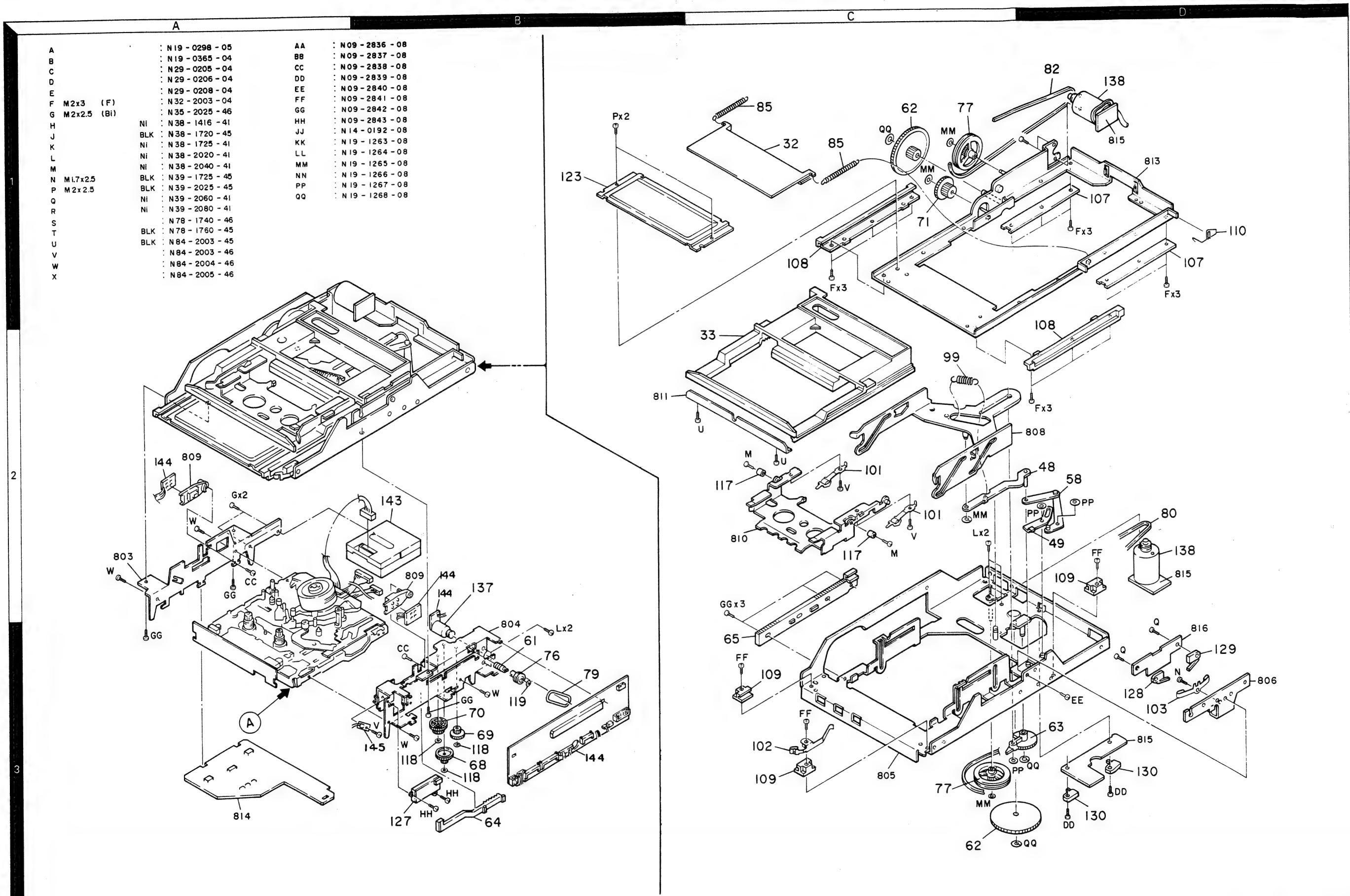


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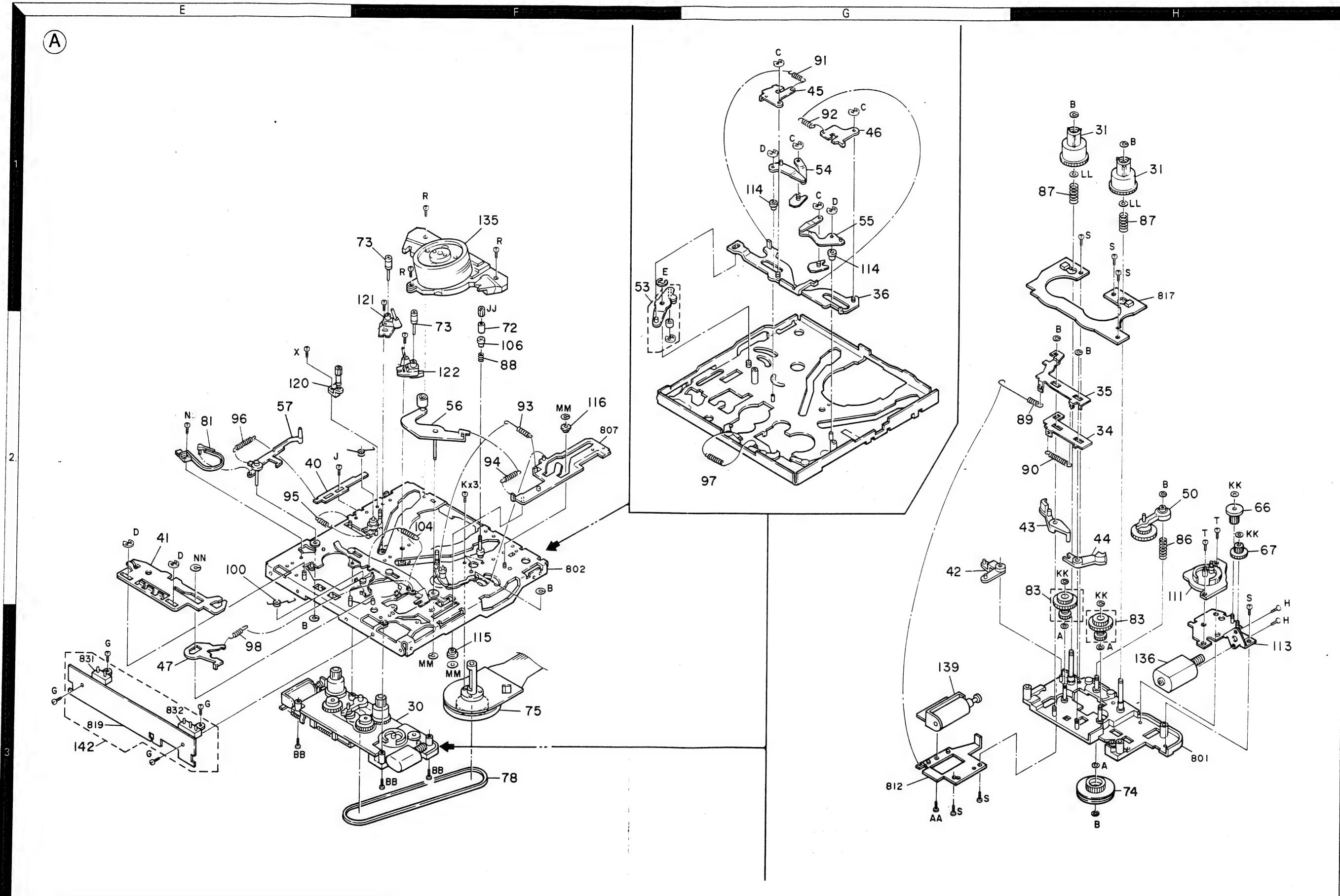


DX-7030 DX-7030

EXPLODED VIEW (MECHANISM)

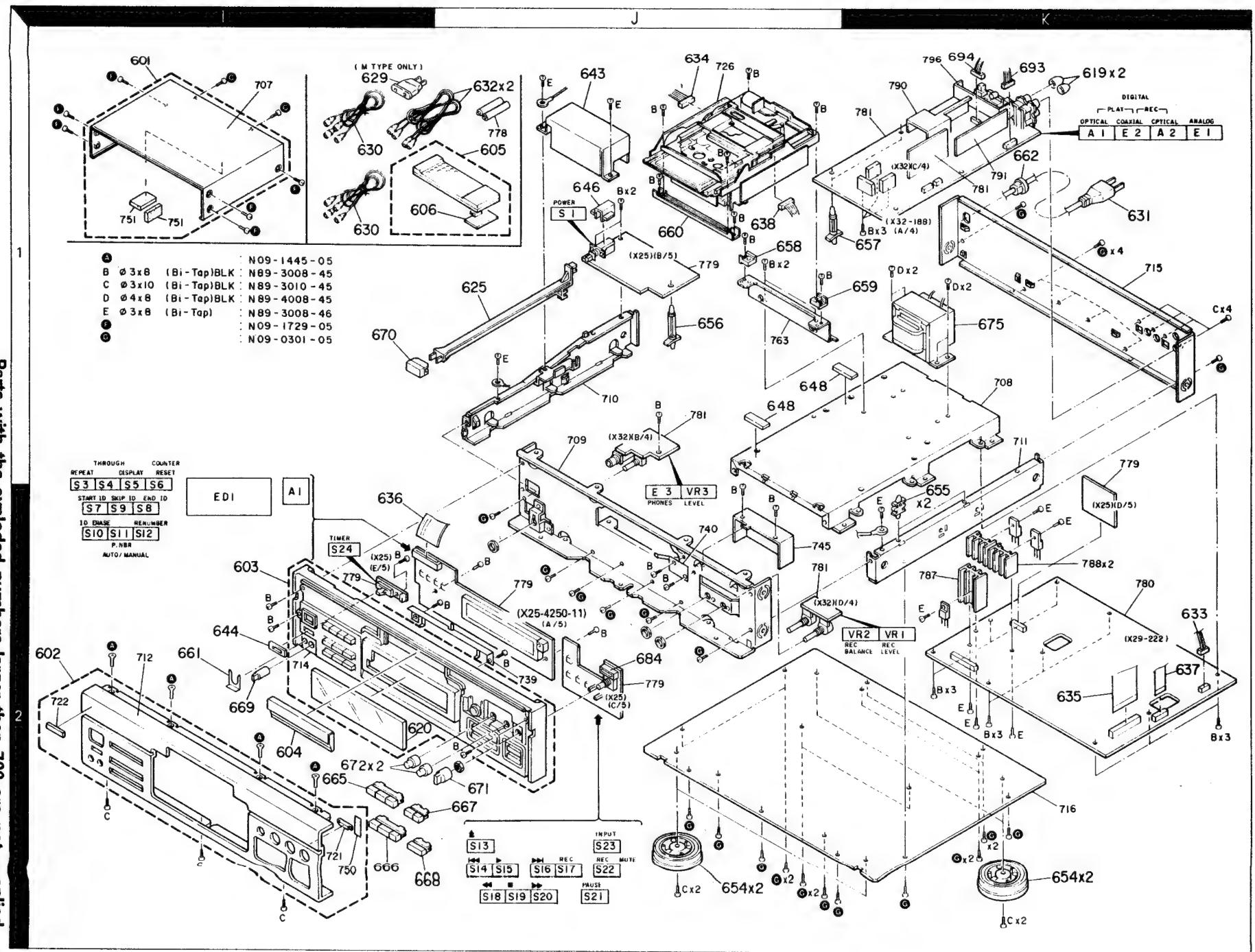


DX-7030 DX-7030
EXPLODED VIEW (MECHANISM)



EXPLODED VIEW (UNIT)

DX-7030



DX-7030

PARTS LIST

* New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

46

Ref. No.	Address	New Parts	Parts No.	Description	Desti- nation	Re- marks
参照番号	位置	新	部品番号	部品名／規格	仕向	備考
DX-7030						
601	1I	*	A01-1942-22	METALLIC CABINET ASSY		
602	2I	*	A20-6143-03	PANEL ASSY		
603	2I	*	A22-1457-02	SUB PANEL ASSY		
604	2I	*	A29-0178-14	PANEL ASSY (TRAY)		
605	1J	*	A70-0398-05	REMOTE CONTROLLER ASSY		
606	1I		A09-0078-08	BATTERY COVER		
619	1K		B09-0068-05	CAP		
620	2I	*	B10-1827-04	FRONT GLASS		
			B46-0092-03	WARRANTY CARD	K	
			B46-0094-03	WARRANTY CARD	Y	
			B46-0095-03	WARRANTY CARD		
			B46-0122-13	WARRANTY CARD	E	
			B46-0143-13	WARRANTY CARD	T	
			B58-0513-04	CAUTION CARD (PRESET220-240)	Y	
		*	B60-0297-00	INSTRUCTION MANUAL(ENGLISH)		
		*	B60-0298-00	INSTRUCTION MANUAL(FRENCH)	E	
		*	B60-0299-00	INSTRUCTION MANUAL(SPANISH)	M	
		*	B60-0300-00	INSTRUCTION MANUAL(GER/DUT)	E	
		*	B60-0432-00	INSTRUCTION MANUAL(CHINESE)	M	
		*	B60-0433-00	INSTRUCTION MANUAL(ITALIAN)	E	
625	1J	*	D21-1103-13	EXTENSION SHAFT	M	
629	1I		E03-0115-05	AC PLUG ADAPTER		
631	1K		E30-0459-05	AC POWER CORD	M	
631	1K		E30-0505-05	AUDIO CORD	ME	
631	1K		E30-0780-05	AC POWER CORD	K	
631	1K		E30-0812-05	AC POWER CORD	Y	
631	1K		E30-1416-05	AC POWER CORD	T	
632	1J		E30-2365-05	CORD WITH PLUG		
633	2K	*	E35-0016-05	WIRING HARNESS (2P, X29)		
634	1J	*	E35-0017-05	WIRING HARNESS (11P, GREEN)		
635	2K	*	E35-0018-05	FLAT CABLE (X29)		
636	2I	*	E35-0019-05	FLAT CABLE		
637	2K	*	E35-0020-05	FLAT CABLE (X29)		
638	1J	*	E35-0046-05	WIRING HARNESS (11P, WHITE)		
643	1J	*	F07-0577-13	COVER		
644	2I	*	F19-1028-04	BLIND PLATE		
646	1J	*	F29-0106-04	INSULATING COVER	YMTE	
648	1J	*	G10-0169-04	NON-WOVEN FABRIC		
		*	G11-2046-04	SOFT TAPE		
		*	G11-2060-04	SOFT TAPE		
		*	G11-2061-04	SOFT TAPE		
		*	H01-8912-04	ITEM CARTON CASE		
		*	H10-5071-02	POLYSTYRENE FOAMED FIXTURE		
		*	H10-5072-02	POLYSTYRENE FOAMED FIXTURE		
		*	H20-0568-04	PROTECTION COVER		
		*	H25-0232-04	PROTECTION BAG (235X350X0.03)		
			H25-0368-04	PROTECTION BAG	KYTE	
654	2J, 2K		J02-1052-05	FOOT		
655	2K		J19-2655-15	UNIT HOLDER		
656	1J		J19-3163-05	UNIT HOLDER		

Ref. No.	Address	New Parts	Parts No.	Description	Desti- nation	Re- marks
参照番号	位置	新	部品番号	部品名／規格	仕向	備考
DISPLAY (X25-4250-11)						
684	2J	*	A33-0121-04	REFLECTOR		
	D9		B30-1010-05	LED(SLP-281F-50U)		
	D10		B30-1012-05	LED(SLP-981C-50)		
	D11		B30-1011-05	LED(SLP-481C-50)		
	D12		B30-1285-05	LED		
	C1		CE04KWI1A470M	ELECTRO	47UF	10WV
	C2		CK45FF1H103Z	CERAMIC	0.010UF	Z
	C3		CE04KWI1A470M	ELECTRO	47UF	10WV
	C4		CK45FF1H103Z	CERAMIC	0.010UF	Z
	C10 -12		CK45FF1H103Z	CERAMIC	0.010UF	Z
	C13		C90-1349-05	NP-ELEC	1UF	50WV
	C14		CF92FV1H473J	MF	0.047UF	J
	C15 -23		CK45FF1H103Z	CERAMIC	0.010UF	Z
	C25 -27		C91-0971-05	FILM	0.01UF	250WV
	C28		CE04KWI1A101M	ELECTRO	100UF	10WV
	C29 ,30		C91-0085-05	CERAMIC	0.022UF	N
	C31 ,32		C91-0729-05	CERAMIC	22PF	J
	C33		C91-0085-05	CERAMIC	0.022UF	N
	C34		CK45FF1H103Z	CERAMIC	0.010UF	Z
	C35 -41		C91-0757-05	CERAMIC	1000PF	K
	L1		L32-0524-05	OSCILLATING COIL		
	L4		L40-1011-17	SMALL FIXED INDUCTOR(100UH,K)		
	L5		L79-0733-05	LINE FILTER		

E: Scandinavia & Europe K: USA P: Canada W:Europe

Y: PX(Far East, Hawaii) T: England M: Other Areas

Y: AAFES(Europe) X: Australia

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DX-7030

PARTS LIST

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Ref. No.	Address	New Parts 新 部 品 番 号	Parts No.	Description	Desti- nation 仕 向 備 考
參照番号	位 置	部 品 番 号	部 品 名 規 格	部 品 名 規 格	部 品 名 規 格
X1			L77-1176-05	CRYSTAL RESONATOR	
CP1			R90-0438-05	MULTI-COMP 47KX7 J 1/6W	
S1	1J		S40-1153-05	PUSH SWITCH (POWER)	
S2			S31-2131-05	SLIDE SWITCH (POWER TYPE)	
S3 -22	2I, 2J		S40-1064-05	PUSH SWITCH (20KEY)	YM
S23	2J		S29-1151-05	ROTARY SWITCH (INPUT)	
S24	2I		S31-1030-05	SLIDE SWITCH (TIMER)	
D1 -7			HSS104A	DIODE	
D1 -7			1SS131	DIODE	
D8			HZS5.1N(B2)	ZENER DIODE	
D8			RD5.1ES(B2)	ZENER DIODE	
D20			HSS104A	DIODE	
D20			1SS131	DIODE	
ED1	2I	*	FIP10X6	FLUORESCENT INDICATOR TUBE	
IC1		*	HA12062AMP	IC(PLL)	
IC2		*	UPD75216AGF-631	IC(DISPLAY u-COM)	
Q3 -8			2SC2021F	TRANSISTOR	
A1	1K		W02-1043-05	OPTIC RECEIVING MODULE	
SERVO (X29-2220-00)					
C1			CF92FV1H102J	MF 1000PF J	
C2			CE04KW1A470M	ELECTRO 47UF 10WV	
C3			CK45FF1H103Z	CERAMIC 0.010UF Z	
C4			CC45FSL1H100D	CERAMIC 10PF D	
C5			CF92FV1H103J	MF 0.010UF J	
C6			CC45FSL1H121J	CERAMIC 120PF J	
C7			CF92FV1H222J	MF 2200PF J	
C8			CF92FV1H102J	MF 1000PF J	
C9			CE04KW1V4R7M	ELECTRO 4.7UF 35WV	
C10			CE04KW1A470M	ELECTRO 47UF 10WV	
C11			CF92FV1H562J	MF 5600PF J	
C12 ,13			C90-1349-05	NP-ELEC 1UF 50WV	
C14			CF92FV1H223J	MF 0.022UF J	
C15			C90-1349-05	NP-ELEC 1UF 50WV	
C16			CF92FV1H103J	MF 0.010UF J	
C17			CE04KW1H010M	ELECTRO 1.0UF 50WV	
C18			CF92FV1H103J	MF 0.010UF J	
C19			CC45FSL1H100D	CERAMIC 10PF D	
C20			CF92FV1H104J	MF 0.10UF J	
C21			CC45FSL1H100D	CERAMIC 10PF D	
C22			CF92FV1H104J	MF 0.10UF J	
C23			CF92FV1H103J	MF 0.010UF J	
C24			CE04KW1H010M	ELECTRO 1.0UF 50WV	
C25			CF92FV1H102J	MF 1000PF J	
C26			CF92FV1H222J	MF 2200PF J	
C27			CF92FV1H104J	MF 0.047UF J	
C28			CE04KW1V4R7M	ELECTRO 4.7UF 35WV	
C29			CF92FV1H222J	MF 2200PF J	
C30			CF92FV1H683J	MF 0.068UF J	
C31			C90-1349-05	NP-ELEC 1UF 50WV	
C32			C90-1350-05	NP-ELEC 2.2UF 50WV	
C33			CE04KW1H010M	ELECTRO 1.0UF 50WV	
C34			CE04KW0J331M	ELECTRO 330UF 6.3WV	
C35			CK45FF1H103Z	CERAMIC 0.010UF Z	

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C36			CF92FV1H153J	MF 0.015UF J	
C37			CF92FV1H472J	MF 4700PF J	
C38			CF92FV1H473J	MF 0.047UF J	
C39			CF92FV1H154J	MF 0.15UF J	
C40			CF92FV1H183J	MF 0.018UF J	
C41			CE04KW0J331M	ELECTRO 330UF 6.3WV	
C42 ,43			CK45FF1H103Z	CERAMIC 0.010UF Z	
C43			CF92FV1H104J	MF 0.10UF J	
C44			CE04KW1A470M	ELECTRO 47UF 10WV	
C45			CF92FV1H104J	MF 0.10UF J	
C46			CE04KW1A470M	ELECTRO 47UF 10WV	
C47			CF92FV1H104J	MF 0.10UF J	
C48			CE04KW1C222M	ELECTRO 2200UF 16WV	
C49			CK45FF1H103Z	CERAMIC 0.010UF Z	
C50			C91-0769-05	CERAMIC 0.01UF K	
C51			CE04KW0J471M	ELECTRO 4700UF 6.3WV	
C52			CK45FF1H103Z	CERAMIC 0.010UF Z	
C53 ,54			CE04KW1C222M	ELECTRO 4700UF 6.3WV	
C54			CF92FV1H104J	MF 0.10UF J	
C55			C90-1838-05	ELECTRO 15000UF 16WV	
C56			CK45FF1H103Z	CERAMIC 0.010UF Z	
C57			CE04KW0J471M	ELECTRO 4700UF 6.3WV	
C58			CE04KW1C222M	ELECTRO 2200UF 16WV	
C59			CF92FV1H104J	MF 0.10UF J	
C60			CE04KW1C222M	ELECTRO 2200UF 16WV	
C61			CE04KW1C222M	ELECTRO 2200UF 16WV	
C62			CE04KW1C222M	ELECTRO 2200UF 16WV	
C63 ,64			CK45FF1H103Z	CERAMIC 0.010UF Z	
C64			CE04KW1C222M	ELECTRO 2200UF 16WV	
C65			CE04KW1A470M	ELECTRO 47UF 10WV	
C66			CC45FSL1H101J	CERAMIC 100PF J	
C67			CE04KW1A470M	ELECTRO 47UF 10WV	
C68			CF92FV1H104J	MF 0.10UF J	
C69			CE04KW1A221M	ELECTRO 2200UF 10WV	
C70			CF92FV1H104J	MF 0.10UF J	
C71			CE04KW1A470M	ELECTRO 47UF 10WV	
C72			CE04KW1A221M	ELECTRO 2200UF 10WV	
C73			CF92FV1H104J	MF 0.10UF J	
C74			CC45FSL1H101J	CERAMIC 100PF J	
C75 ,79			CE04KW1A470M	ELECTRO 47UF 10WV	
C80 ,81			CE04KW1C101M	ELECTRO 100UF 16WV	
C82			CF92FV1H334J	MF 0.33UF J	
C83			CK45FF1H103Z	CERAMIC 0.010UF Z	
C84			CE04KW1A470M	ELECTRO 47UF 10WV	
C85 ,88			CF92FV1H104J	MF 0.10UF J	
C86			CF92FV1H122J	MF 1200PF J	
C87			CK45FF1H103Z	CERAMIC 0.010UF Z	
C88			CE04KW0J471M	ELECTRO 4700UF 6.3WV	
C89			CE04KW1C330M	ELECTRO 33UF 16WV	
C90			CK45FF1H103Z	CERAMIC 0.010UF Z	
C91			CE04KW1H470M	ELECTRO 47UF 50WV	
C92			CK45FF1H103Z	CERAMIC 0.010UF Z	
C93			CE04KW1H470M	ELECTRO 47UF 50WV	
C94			CK45FF1H103Z	CERAMIC 1.0UF 50WV	
C95			CF92FV1H270J	CERAMIC 27PF J	
C96			CK45FF1H103Z	CERAMIC 0.010UF Z	
C97			CE04KW0J331M	ELECTRO 330UF 6.3WV	
C98			CK45FF1H103Z	CERAMIC 0.010UF Z	
C99			CC45FSL1H100D	CERAMIC 10PF D	
C100			CC45FSL1H270J	CERAMIC 27PF J	
C101			CK45FF1H103Z	CERAMIC 0.010UF Z	
C102			CE04KW1H470M	ELECTRO 47UF 50WV	
C103			CK45FF1H103Z	CERAMIC 0.010UF Z	
C104			CE04KW1C330M	ELECTRO 33UF 16WV	
C105			CK45FF1H103Z	CERAMIC 0.010UF Z	
C106			CE04KW1H470M	ELECTRO 47UF 50WV	
C107			CK45FF1H103Z	CERAMIC 0.010UF Z	
C108			CE04KW1H470M	ELECTRO 47UF 50WV	
C109			CK45FF1H103Z	CERAMIC 1.0UF 50WV	
C110			CF92FV1H270J	CERAMIC 27PF J	
C111			CK45FF1H103Z	CERAMIC 0.010UF Z	
C112, 113			CE04KW0J331M	ELECTRO 330UF 6.3WV	
C114			CK45FF1H103Z	CERAMIC 0.010UF Z	
C115			CC45FSL1H100D	CERAMIC 10PF D	
C116			CC45FSL1H270J	CERAMIC 27PF J	

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C117			CF92FV1H102J	MF	1000PF	J
C118			CK45FF1H103Z	CERAMIC	0.010UF	Z
C119			CEO4KW0J331M	ELECTRO	330UF	6.3WV
C120			CK45FF1H103Z	CERAMIC	0.010UF	Z
C121, 122			CF92FV1H103J	MF	0.010UF	J
C123			CEO4KW0J331M	ELECTRO	330UF	6.3WV
C124, 125			CK45FF1H103Z	CERAMIC	0.010UF	Z
C126			CEO4KW0J331M	ELECTRO	330UF	6.3WV
C127-129			CK45FF1H103Z	CERAMIC	0.010UF	Z
C130			CF92FV1H334J	MF	0.33UF	J
C131			CK45FF1H103Z	CERAMIC	0.010UF	Z
C132			CEO4KW0J331M	ELECTRO	330UF	6.3WV
C133			CF92FV1H474J	MF	0.47UF	J
C134			CF92FV1H102J	MF	1000PF	J
C135			CF92FV1H103J	MF	0.010UF	J
C136			CK45FF1H103Z	CERAMIC	0.010UF	Z
C137			CEO4KW0J331M	ELECTRO	330UF	6.3WV
C138			CC45FCH1H470J	CERAMIC	47PF	J
C139			CK45FF1H103Z	CERAMIC	0.010UF	Z
C140			CEO4KW0J331M	ELECTRO	330UF	6.3WV
C141			CK45FF1H103Z	CERAMIC	0.010UF	Z
C142			CEO4DW0J102M	ELECTRO	1000UF	6.3WV
C143			CK45FF1H103Z	CERAMIC	0.010UF	Z
C144			CEO4KW1A101M	ELECTRO	100UF	10WV
C145, 146			C91-0769-05	CERAMIC	0.01UF	K
C147, 148			CF92FV1H104J	MF	0.10UF	J
C149			CK45FF1H103Z	CERAMIC	0.010UF	Z
C150			CEO4KW0J331M	ELECTRO	330UF	6.3WV
C151			CK45FF1H103Z	CERAMIC	0.010UF	Z
C152			CEO4KW0J331M	ELECTRO	330UF	6.3WV
C153			CK45F1H103Z	CERAMIC	0.010UF	Z
C154			CEO4KW1H010M	ELECTRO	1.0UF	50WV
C155			CC45FSL1H100D	CERAMIC	10PF	D
C156			CEO4DW1H010M	ELECTRO	1.0UF	50WV
CN2			E10-3901-05	FLAT CABLE CONNECTOR		
CN21			E10-1507-05	FLAT CABLE CONNECTOR		
CN25			E10-2703-05	FLAT CABLE CONNECTOR		
F1			F53-0010-05	FUSE		K
F2			F53-0022-05	FUSE		YMTE
F3	*		F53-0007-05	FUSE		K
F3	*		F53-0020-05	FUSE		YMTE
-	*		JL1-0098-05	WIRE CLAMPER		
L1	*		L39-1301-05	COMBINATION COIL		
L2	*		L39-1302-05	COMBINATION COIL		
L21			L40-1091-17	SMALL FIXED INDUCTOR		
L22			L40-1001-17	SMALL FIXED INDUCTOR(10UH, K)		
X1	*		L77-1188-05	CRYSTAL RESONATOR		
X2	*		L78-0280-05	RESONATOR		
-			N35-3008-46	BINDING HEAD MACHIN SCREW		
E			N89-3008-46	BINDING HEAD TAPTITE SCREW		
CP1			R90-0805-05	MULTI-COMP	10KX8	J 1/4W
CP2			R90-0856-05	MULTI-COMP	10KX5	J

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CP3			R90-0819-05	MULTIPLE RESISTOR		
R61			RD14GB2E1R0J	FL-PROOF RD	1.0	J 1/4W
R71			RD14GB2E1R0J	FL-PROOF RD	1.0	J 1/4W
R92			RD14GB2E270J	FL-PROOF RD	27	J 1/4W
R95			RD14GB2E270J	FL-PROOF RD	27	J 1/4W
R110, 111			RS14KB3D120J	FL-PROOF RS	12	J 2W
R113			RS14KB3D4R7J	FL-PROOF RS	4.7	J 2W
R124			RD14GB2E562J	FL-PROOF RD	5.6K	J 1/4W
VR1			R12-3126-05	TRIMMING POT.(10K)		
VR2			R12-6016-05	TRIMMING POT.(330K)		
VR3 ,4			R12-3126-05	TRIMMING POT.(10K)		
S1			S40-1064-05	PUSH SWITCH		
D1			1B4B41	DIODE		
D2 -6			S3V20	DIODE		
D7			HZS5.6N(B2)	ZENER DIODE		
D7			R05.6ES(B2)	ZENER DIODE		
D8 ,9			HSS104	DIODE		
D8 ,9			ISS133	DIODE		
D10 ,11			HZS5.1N(B)	ZENER DIODE		
D10 ,11			R05.1ES(B)	ZENER DIODE		
D12 ,13			HZS3.9N(B)	ZENER DIODE		
D12 ,13			R03.9ES(B)	ZENER DIODE		
D14			S5566B	DIODE		
D15			HSS104	DIODE		
D15			ISS133	DIODE		
D21 -24			S5566B	DIODE		
D25 ,26			HZS16N(B2)	ZENER DIODE		
D25 ,26			RD16ES(B2)	ZENER DIODE		
D27			HZS6.2N(B2)	ZENER DIODE		
D28 -32			RD6.2ES(B2)	ZENER DIODE		
D28 -32			HSS104	DIODE		
D28 -32			ISS133	DIODE		
D33			HZS3.3N(B2)	ZENER DIODE		
D33			R03.3ES(B2)	ZENER DIODE		
D34			HSS104	DIODE		
D34			ISS133	DIODE		
IC1		*	HD49212	IC(DAT SERVO)		
IC2			TC74HC4053AP	IC(ANALOG MULTIPLEXER)		
IC3 ,4			M5223P	IC(OP AMP X2)		
IC5 -7			LM2940CT-5.0	IC(LOW VOLTAGE REGULATOR)		
IC8 ,9			M5223P	IC(OP AMP X2)		
IC10-12			TA75393S	IC(COMPARATOR X2)		
IC13, 14		*	LB1644	IC(MOTOR DRIVER)		
IC21		*	LM2940CT-5.0	IC(LOW VOLTAGE REGULATOR)		
IC22		*	HD49211BFS	IC(DAT SIGNAL PROCESSOR)		
IC23		*	HM65256BLFP-12	IC(MICROPROCESSOR)		
IC24		*	PST529D	IC		
IC25		*	M37450M8-382FP	IC(MICROPROCESSOR)		
IC26		*	CXD1095Q	IC(I/O EXPANDER)		
IC27		*	HM6264LFP15L	IC		
IC28		*	NJM4565D	IC(OP AMP X2)		
IC29		*	TC74HCU04AP	IC(CMOS INVERTER)		
IC30		*	SN74LS624N	IC(VCO)		

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IC31			TC74HC00AP	IC(QUAD 2-INPUT NAND GATE)		
IC32		*	TC74HC125AP	IC		
IC33, 34			TC74HC125AF	IC		
IC35, 36			TC74HC125AP	IC		
IC37			PST529C	IC(SYSTEM RESET)		
Q1 -3			2SC1923(R, Q)	TRANSISTOR		
Q4			2SA733(A)(Q, P)	TRANSISTOR		
Q4			2SA933S(Q, R)	TRANSISTOR		
Q5			2SD1266(Q, P)	TRANSISTOR		
Q6			DTC124ES	DIGITAL TRANSISTOR		
Q7			2SC1740S(Q, R)	TRANSISTOR		
Q7			2SC945(A)(Q, P)	TRANSISTOR		
Q8			2SB772(Q, P)	TRANSISTOR		
Q9			DTC124ES	DIGITAL TRANSISTOR		
Q10			2SC1740S(Q, R)	TRANSISTOR		
Q10			2SC945(A)(Q, P)	TRANSISTOR		
Q11			2SB772(Q, P)	TRANSISTOR		
Q12			2SA733(A)(Q, P)	TRANSISTOR		
Q12			2SA933S(Q, R)	TRANSISTOR		
Q14			2SB772(Q, P)	TRANSISTOR		
Q15			DTC124ES	DIGITAL TRANSISTOR		
Q16			2SB772(Q, P)	TRANSISTOR		
Q17 , 18			DTC124ES	DIGITAL TRANSISTOR		
Q19			DTA124ES	DIGITAL TRANSISTOR		
Q20			2SD1266(Q, P)	TRANSISTOR		
Q21			2SD882(Q, P)	TRANSISTOR		
Q22			DTA124ES	DIGITAL TRANSISTOR		
Q41			2SB941(Q, P)	TRANSISTOR		
Q42			2SK246(Y, GR)	FET		
Q43 , 44			DTC124ES	DIGITAL TRANSISTOR		
SIGNAL (X32-1880-00)						
C1 , 2			CEO4KW1E222M	ELECTRO	2200UF	25WV
C3			CEO4KW1H100M	ELECTRO	10UF	50WV
C4			CEO4KW1A101M	ELECTRO	100UF	10WV
C5			CEO4KW1H100M	ELECTRO	10UF	50WV
C6 , 7			CEO4KW1C331M	ELECTRO	330UF	16WV
C8			CEO4KW1H100M	ELECTRO	10UF	50WV
C9			CEO4KW1A101M	ELECTRO	100UF	10WV
C10			CEO4KW1C331M	ELECTRO	330UF	16WV
C11			CEO4KW0J221M	ELECTRO	220UF	6.3WV
C12			CEO4KW1C101M	ELECTRO	100UF	16WV
C13			CEO4KW1H4R7M	ELECTRO	4.7UF	50WV
C14 , 15			CEO4KW1H010M	ELECTRO	1.0UF	50WV
C16			CF92FV1H121K	MF	120PF	K
C19			CF92FV1H121K	MF	120PF	K
C22			CEO4KW1H010M	ELECTRO	1.0UF	50WV
C23			CF92FV1H121K	MF	120PF	K
C26			CF92FV1H121K	MF	120PF	K
C29			CEO4KW1H010M	ELECTRO	1.0UF	50WV
C30			CF92FV1H121K	MF	120PF	K
C33			CF92FV1H121K	MF	120PF	K
C38			CEO4DW1A101M	ELECTRO	100UF	10WV
C39 - 41			CF92FV1H224J	MF	0.22UF	J
C42			CC45FUJ1H180J	CERAMIC	18PF	J
C43			CF92FV1H103J	MF	0.010UF	J

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C44			CC45FUJ1H390J	CERAMIC	39PF	J
C45			CC45FUJ1H100D	CERAMIC	10PF	D
C46			CC45FSL1H101J	CERAMIC	100PF	J
C47			CF92FV1H102J	MF	1000PF	J
C48			CC45FSL1H101J	CERAMIC	100PF	J
C49			CF92FV1H223J	MF	0.022UF	J
C50			CEO4KW1A101M	ELECTRO	100UF	10WV
C51			CEO4KW1C101M	ELECTRO	100UF	16WV
C52			CEO4KW1C330M	ELECTRO	33UF	16WV
C53			CF92FV1H103J	MF	0.010UF	J
C54			CEO4KW1C101M	ELECTRO	100UF	16WV
C55			CF92FV1H103J	MF	0.010UF	J
C56			CEO4KW1A221M	ELECTRO	220UF	10WV
C57			CEO4KW1A101M	ELECTRO	100UF	10WV
C58			CF92FV1H102J	MF	1000PF	J
C59		*	CF92FV1H334J	MF	0.33UF	J
C60		*	C90-1877-05	ELECTRO	100UF	6.3WV
C61			CF92FV1H103J	MF	0.010UF	J
C62 -66		*	CF92FV1H334J	MF	0.33UF	J
C67		*	C90-1877-05	ELECTRO	100UF	6.3WV
C68			CF92FV1H102J	MF	1000PF	J
C69			CEO4KW1A101M	ELECTRO	100UF	10WV
C70			CF92FV1H103J	MF	0.010UF	J
C71 , 74			CEO4KW1C101M	ELECTRO	100UF	16WV
C75 , 76			CF92FV1H561J	MF	560PF	J
C77 , 80			CF92FV1H391K	MF	390PF	K
C81 , 82			CF92FV1H332J	MF	3300PF	J
C83 , 84			CF92FV1H103J	MF	0.010UF	J
C85 , 86			CF92FV1H331K	MF	330PF	K
C87 , 88			CF92FV1H183J	MF	0.018UF	J
C89 , 90			CF92FV1H103J	MF	0.010UF	J
C91 , 92			C90-1333-05	NP-ELEC	22UF	10WV
C93 , 94			CF92FV1H103J	MF	0.010UF	J
C95 - 100			CF92FV1H102J	MF	1000PF	J
C101			CEO4KW1C101M	ELECTRO	100UF	16WV
C103			CEO4KW1A101M	ELECTRO	100UF	10WV
C104			CEO4KW0J221M	ELECTRO	220UF	6.3WV
C105, 106			C90-1333-05	NP-ELEC	22UF	10WV
C107, 108			CEO4KW1C101M	ELECTRO	100UF	16WV
C109, 110			CF92FV1H331K	MF	330PF	K
C111-115			CF92FV1H103J	MF	0.010UF	J
C116			CEO4KW1H100M	ELECTRO	10UF	50WV
C117			CF92FV1H103J	MF	0.010UF	J
C118			CF92FV1H391K	MF	390PF	K
C119			CEO4KW0J331M	ELECTRO	330UF	6.3WV
C120			CF92FV1H103J	MF	0.010UF	J
C121			CEO4KW0J331M	ELECTRO	330UF	6.3WV
C122			CF92FV1H103J	MF	0.010UF	J
C123			CEO4KW0J331M	ELECTRO	330UF	6.3WV
C124			CF92FV1H121K	MF	120PF	K
C125, 126			CEO4KW1C221M	ELECTRO	220UF	16WV
C127			CEO4KW1A101M	ELECTRO	100UF	10WV
C128			CEO4KW0J221M	ELECTRO	220UF	6.3WV
C130			CEO4KW1H100M	ELECTRO	10UF	50WV
C131			CEO4KW0J221M	ELECTRO	220UF	6.3WV

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参考番号	位置	新	部品番号	部品名 / 規格	仕向	備考
C133			CF92FV1H103J	MF 0.010UF J		
C134			CF92FV1H104J	MF 0.10UF J		
C135			CC45FSL1H470J	CERAMIC 47PF J		
C136			CE04KW1A470M	ELECTRO 47UF 10WV		
C137, 138			CE04KW1A101M	ELECTRO 100UF 10WV		
C139-141			CF92FV1H104J	MF 0.10UF J		
C142			CE04KW1A470M	ELECTRO 47UF 10WV		
C143			CF92FV1H104J	MF 0.10UF J		
C144			CE04KW1V101M	ELECTRO 100UF 35WV		
C145			CE04KW1C330M	ELECTRO 33UF 16WV		
C146			CF92FV1H104J	MF 0.10UF J		
C147-150			C90-1333-05	NP-ELEC 22UF 10WV		
C151, 152			CC45FSL1H390J	CERAMIC 39PF J		
C153, 154			CE04KW1H220M	ELECTRO 22UF 50WV		
C156-158			CF92FV1H104J	MF 0.10UF J		
C200-203			CF92FV1H103J	MF 0.010UF J		
C204			CE04KW0J221M	ELECTRO 220UF 6.3WV		
C205			CF92FV1H104J	MF 0.10UF J		
C206			CE04KW0J221M	ELECTRO 220UF 6.3WV		
C207			CE04KW1A101M	ELECTRO 100UF 10WV		
C208			CF92FV1H103J	MF 0.010UF J		
C209			CE04KW1E101M	ELECTRO 100UF 25WV		
C210			CE04KW1A101M	ELECTRO 100UF 10WV		
C211			CF92FV1H103J	MF 0.010UF J		
C212			CE04KW1A101M	ELECTRO 100UF 10WV		
C213			CE04KW1E101M	ELECTRO 100UF 25WV		
C214			CC45FSL1H050C	CERAMIC 5.0PF C		
C215			CF92FV1H104J	MF 0.10UF J		
C217			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C220-223			CF92FV1H103J	MF 0.010UF J		
C224, 225			C90-1333-05	NP-ELEC 22UF 10WV		
C226			CK45FF1H103Z	CERAMIC 0.010UF Z		
693	1K	*	E35-0051-05	WIRING HARNESS		
694	1K	*	E35-0052-05	WIRING HARNESS		
CN2			E10-1507-05	FLAT CABLE CONNECTOR		
E1	1K		E63-0002-05	PHONE JACK		
E2	1K	*	E63-0012-05	PHONE JACK		
E3	2J		E11-0190-05	PHONE JACK		
-			J61-0088-05	WIRE BAND		
L1		*	L32-0529-05	OSCILLATING COIL		
L3			L40-2291-17	SMALL FIXED INDUCTOR		
L5			L40-2291-17	SMALL FIXED INDUCTOR		
L6			L40-1011-17	SMALL FIXED INDUCTOR(100UH, K)		
L7			L40-2291-17	SMALL FIXED INDUCTOR		
L8			L40-1011-17	SMALL FIXED INDUCTOR(100UH, K)		
L9		*	L40-3381-17	SMALL FIXED INDUCTOR		
L10 , 11			L40-1001-17	SMALL FIXED INDUCTOR(10UH, K)		
L12			L39-0155-05	MATCHING COIL		
L14			L40-1011-17	SMALL FIXED INDUCTOR(100UH, K)		
L16			L40-1011-17	SMALL FIXED INDUCTOR(100UH, K)		
L17 -23			L92-0021-05	FERRITE CORE		
L24			L40-1011-17	SMALL FIXED INDUCTOR(100UH, K)		
L30 - 32			L92-0021-05	FERRITE CORE		

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参考番号	位置	新	部品番号	部品名 / 規格	仕向	備考
L33			L92-0028-05	FERRITE CORE		
X1		*	L77-1196-05	CRYSTAL RESONATOR		
X2		*	L77-1197-05	CRYSTAL RESONATOR		
X3		*	L77-1198-05	CRYSTAL RESONATOR		
X4 , 5		*	L78-0281-05	RESONATOR		
-			N35-3008-45	BINDING HEAD MACHIN SCREW		
B			N89-3008-45	BINDING HEAD TAPTITE SCREW		
R19			RS14KB3D151J	FL-PROOF RS 150 J 2W		
R73 , 74			RN14BK2C1211F	RN 1.21K F 1/6W		
R104-107			RN14BK2C1002F	RN 10.0K F 1/6W		
R108-111			RN14BK2C4641F	RN 4.64K F 1/6W		
R112-115			RN14BK2C1962F	RN 19.6K F 1/6W		
VR1	2K	*	RO6-4059-05	POTENTIOMETER(50KX2)		
VR2	2K	*	RO6-5185-05	POTENTIOMETER(200K X2)		
VR3	2J	*	R10-4026-05	POTENTIOMETER		
K1			SS1-2095-05	MAGNETIC RELAY		
D1			1B4B41	DIODE		
D2 , 3			SS566B	DIODE		
D4 , 5			HZS13N(B2)	ZENER DIODE		
D6			RD13ES(B2)	ZENER DIODE		
D7			HZS5.1S(B2)	ZENER DIODE		
D8			RD5.1JS(B2)	ZENER DIODE		
D9			HSS104	DIODE		
D9			ISS133	DIODE		
D10		*	KV1350NT	VARIABLE CAPACITANCE DIODE		
D11			HZS13N(B2)	ZENER DIODE		
D11			RD13ES(B2)	ZENER DIODE		
D12			HZS5.1S(B2)	ZENER DIODE		
D12			RD5.1JS(B2)	ZENER DIODE		
D13			ISS85	DIODE		
D14			HZS13N(B2)	ZENER DIODE		
D14			RD13ES(B2)	ZENER DIODE		
D15			HZS5.1S(B2)	ZENER DIODE		
D15			RD5.1JS(B2)	ZENER DIODE		
D16			ISS85	DIODE		
D17			HZS13N(B2)	ZENER DIODE		
D17			RD13ES(B2)	ZENER DIODE		
D18			HZS5.1S(B2)	ZENER DIODE		
D18			RD5.1JS(B2)	ZENER DIODE		
D19			ISS85	DIODE		
D20 , 21			HZS5.1S(B2)	ZENER DIODE		
D20 , 21			RD5.1JS(B2)	ZENER DIODE		
D22			HSS104	DIODE		
D22			ISS133	DIODE		
D23 - 26			HZS13N(B2)	ZENER DIODE		
D23 - 26			RD13ES(B2)	ZENER DIODE		
D31 - 35			HSS104	DIODE		
IC1			ISS133	DIODE		
			NJM4558D	IC(OP AMP X2)		

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IC2			M5220L	IC		
IC3			TC74HC74AP	IC(DUAL D-TYPE FLIP FLOP)		
IC4			TC74HC139AP	IC(DUAL 2-TQ-4 LINE DECODER)		
IC6			TC74HC125AP	IC		
IC7	*		CX23065A	IC		
IC8			NJM4558L	IC(OP AMP X2)		
IC9			TC74HC161AP	IC		
IC10			TC74HC74AP	IC(DUAL D-TYPE FLIP FLOP)		
IC11			TC74HCU04AP	IC(CMOS INVERTER)		
IC12			TC74HC125AP	IC		
IC13	*		SM5827CP	IC RESET FOR 1 BIT DAC)		
IC14	*		SM5840EP	IC(DIGITAL FILTER)		
IC15	*		CXD2552Q	IC(D/A CONVERTER)		
IC16,17			M5238P	IC(DUAL OP AMP)		
IC18,19			NJM4565D	IC(OP AMP X2)		
IC20	*		AK5326-VP	IC(A/D CONVERTER)		
IC20			CS5326-KP	IC(D/A CONVERTER)		
IC21,22			M5238L	IC		
IC23			NJM4558L	IC(OP AMP X2)		
IC24			TC74HCU04AP	IC(CMOS INVERTER)		
IC25			TA8410AK	IC(POWER OP AMP)		
IC26	*		NJM5532S	IC		
IC27	*		UPC78L08J	IC		
IC28			UPC7805H	IC(VOLTAGE REGULATOR/ +5V)		
IC29			NJM79L12A	IC(VOLTAGE REGULATOR/ -12V)		
IC30			UPC78L05J	IC(VOLTAGE REGULATOR/ +5V)		
Q1			2SD1266	TRANSISTOR		
Q2			2SB941	TRANSISTOR		
Q3			2SK170(BL,V)	FET		
Q4			2SD1266	TRANSISTOR		
Q5			2SK170(BL,V)	FET		
Q6			2SD1266	TRANSISTOR		
Q7			2SK170(BL,V)	FET		
Q8			2SA733(A)(Q,P)	TRANSISTOR		
Q9 ,10			2SA933S(Q,R)	TRANSISTOR		
Q9 ,10			2SC1740S(Q,R)	TRANSISTOR		
Q11			2SC945(A)(Q,P)	TRANSISTOR		
Q14 ,15			2SK241(GR)	FET		
Q14 ,15			2SC1740S(Q,R)	TRANSISTOR		
Q16			2SC945(A)(Q,P)	TRANSISTOR		
Q19 ,20			2SK241(GR)	FET		
Q19 ,20			2SC1740S(Q,R)	TRANSISTOR		
Q21			2SC945(A)(Q,P)	TRANSISTOR		
Q24			2SK241(GR)	FET		
Q25			2SC1923(R,0)	TRANSISTOR		
Q26			2SK241	FET		
Q26			2SA733(A)(Q,P)	TRANSISTOR		
Q27 -30			2SA933S(Q,R)	TRANSISTOR		
Q31			DTC124ES	DIGITAL TRANSISTOR		
Q31			2SA733(A)(Q,P)	TRANSISTOR		
Q32 -35			2SC2878(B)	FET		
Q36			2SK170(BL,V)	TRANSISTOR		
Q37			2SC3940A	DIGITAL TRANSISTOR		
Q38 ,39			DTC124ES	DIGITAL TRANSISTOR		

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Q40			2SC3940A	TRANSISTOR		
Q41			2SA153AA	TRANSISTOR		
Q42			2SK170(BL,V)	FET		
Q43 ,44			2SC2878(B)	TRANSISTOR		
Q45 -47			DTC124ES	DIGITAL TRANSISTOR		
Q48			2SK163(N)	FET		
Q49 -51			2SK241(GR)	FET		
A1	1K		W02-1044-05	TRANSMITTING ASSY		
A2	1K		W02-1047-05	ELECTRIC CIRCUIT MODULE		
MECHANISM (D40-0954-05)						
30	3F	*	D03-0289-08	REEL DISC ASSY		
31	1H	*	D03-0290-08	REEL DISC ASSY		
32	1C	*	D10-3155-08	SLIDER		
33	2C	*	D10-3156-08	SLIDER		
34	2H	*	D10-3157-08	SLIDER		
35	2H	*	D10-3158-08	SLIDER		
36	1G	*	D10-3159-08	SLIDER		
40	2E	*	D10-3161-08	SLIDER		
41	2E	*	D10-3162-08	SLIDER		
42	2G	*	D10-3164-08	LEVER		
43	2H	*	D10-3165-08	ARM		
44	2H	*	D10-3166-08	ARM		
45	1G	*	D10-3167-08	ARM		
46	1G	*	D10-3168-08	ARM		
47	3E	*	D10-3169-08	ARM		
48	2D	*	D10-3170-08	ARM		
49	2D	*	D10-3171-08	ARM		
50	2H	*	D10-3172-08	ARM ASSY		
53	1F	*	D10-3173-08	ARM ASSY		
54	1G	*	D10-3174-08	ARM ASSY		
55	1G	*	D10-3175-08	ARM ASSY		
56	2F	*	D10-3176-08	ARM ASSY		
57	2E	*	D10-3177-08	ARM ASSY		
58	2D	*	D10-3178-08	ARM ASSY		
61	3B	*	D13-0934-08	WORM		
62	1C, 3C	*	D13-0935-08	GEAR		
63	3D	*	D13-0936-08	GEAR		
64	3B	*	D13-0937-08	LACK		
65	3C	*	D13-0938-08	LACK		
66	2H	*	D13-0946-08	GEAR		
67	2H	*	D13-0947-08	GEAR		
68	3B	*	D13-0948-08	GEAR		
69	3B	*	D13-0949-08	GEAR		
70	3B	*	D13-0950-08	GEAR		
71	1C	*	D13-0951-08	GEAR		
72	2F	*	D14-0336-08	ROLLER		
73	2F	*	D14-0337-08	ROLLER ASSY		
74	1F, 2F	*	D15-0318-08	PULLEY		
75	3H	*	D14-0335-08	CAPSTAN ASSY		
76	3B	*	D15-0319-08	PULLEY		
77	1C, 3C	*	D15-0320-08	PULLEY		
78	3F	*	D16-0319-08	BELT		
79	3B	*	D16-0320-08	BELT		
80	2D	*	D16-0321-08	BELT		

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81	2E	*	D16-0322-08	BELT		
82	1D	*	D16-0323-08	BELT		
83	2H, 3H	*	D19-0266-08	CLUTCH		
85	1C	*	G01-3374-08	EXTENSION SPRING		
86	2H	*	G01-3375-08	COMPRESSION SPRING		
87	1H	*	G01-3376-08	COMPRESSION SPRING		
88	2F	*	G01-3377-08	COMPRESSION SPRING		
89	2H	*	G01-3378-08	EXTENSION SPRING		
90	2H	*	G01-3379-08	EXTENSION SPRING		
91	1G	*	G01-3380-08	EXTENSION SPRING		
92	1G	*	G01-3381-08	EXTENSION SPRING		
93	2F	*	G01-3382-08	EXTENSION SPRING		
94	2F	*	G01-3383-08	EXTENSION SPRING		
95	2E	*	G01-3384-08	EXTENSION SPRING		
96	2E	*	G01-3385-08	EXTENSION SPRING		
97	2G	*	G01-3386-08	EXTENSION SPRING		
98	3E	*	G01-3387-08	EXTENSION SPRING		
99	2C	*	G01-3388-08	EXTENSION SPRING		
100	2E	*	G01-3389-08	TORSION COIL SPRING		
101	2C	*	G02-0986-08	FLAT SPRING ASSY		
102	3C	*	G02-0987-08	FLAT SPRING ASSY		
103	3D	*	G02-0988-08	FLAT SPRING ASSY		
104	2F	*	G01-3412-08	EXTENSION SPRRING		
106	2F	*	J10-0213-08	SLANGE		
107	1D	*	J19-3425-08	HOLDER		
108	1C, 2D	*	J19-3426-08	HOLDER		
109	3C, 2D	*	J19-3427-08	HOLDER		
110	1D	*	J19-3428-08	HOLDER		
111	2H	*	J19-3429-08	HOLDER		
113	3H	*	J21-5735-08	HARDWARE FIXTURE		
114	1G	*	J31-0845-08	COLLAR		
115	3F	*	J31-0846-08	COLLAR		
116	2F	*	J31-0847-08	COLLAR		
117	2C	*	J31-0848-08	COLLAR		
118	3B	*	J69-0078-08	RING		
119	3B	*	J69-0079-08	RING		
120	2E	*	J90-0671-08	POLE BASE ASSY		
121	1F	*	J90-0672-08	POLE BASE ASSY		
122	2F	*	J90-0673-08	POLE BASE ASSY		
123	3B	*	J99-0502-08	TRAY		
A			N19-0298-05	WASHER 1.7X0.25		
B			N19-0365-04	W POLY C 1.2X0.25 T		
C			N29-0205-04	ES 1.5 ZU		
D			N29-0206-04	ES 2.0 ZU		
E			N29-0208-04	ES 3.0 ZU		
F			N32-2003-46	SLAT HEAD MACHINE SCREW		
G		*	N35-2025-46	BINDING HEAD MACHINE SCREW		
H		*	N38-1416-41	PAN HEAD MACHINE SCREW 1.4X1.6		
J		*	N38-1720-45	PAN HEAD MACHINE SCREW 1.7X2.2		
K		*	N38-1725-41	PAN HEAD MACHINE SCREW 1.7X2.5		
L		*	N38-2020-41	PAN HEAD MACHINE SCREW 2.0X2		
M		*	N38-2040-41	PAN HEAD MACHINE SCREW 2.0X4		
N		*	N39-1725-45	PAN HEAD MACHINE SCREW 1.7X2.5		
P		*	N39-2025-45	PAN HEAD MACHINE SCREW 2.0X2.5		

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Q		*	N39-2060-41	PAN HEAD MACHINE SCREW 2.0X6		
R		*	N39-2080-41	PAN HEAD MACHINE SCREW 2.0X8		
S		*	N78-1740-46	PAN HEAD MACHINE SCREW 1.7X4		
T		*	N78-1760-45	PAN HEAD MACHINE SCREW 1.7X6		
U		*	N84-2003-45	PAN HEAD MACHINE SCREW 2.0X3		
V		*	N84-2003-46	PAN HEAD MACHINE SCREW 2.0X3		
W		*	N84-2004-46	PAN HEAD MACHINE SCREW 2.0X4		
X		*	N84-2005-46	PAN HEAD MACHINE SCREW 2.0X5		
AA		*	N09-2836-08	MACHINE SCREW		
BB		*	N09-2837-08	MACHINE SCREW		
CC		*	N09-2838-08	MACHINE SCREW		
DD		*	N09-2839-08	MACHINE SCREW		
EE		*	N09-2840-08	MACHINE SCREW		
FF		*	N09-2841-08	MACHINE SCREW		
GG		*	N09-2842-08	MACHINE SCREW		
HH		*	N09-2843-08	MACHINE SCREW		
JJ		*	N14-0192-08	HEXAGON NUT		
KK		*	N19-1263-08	FLAT WASHER		
LL		*	N19-1264-08	FLAT WASHER		
MM		*	N19-1265-08	FLAT WASHER		
NN		*	N19-1266-08	FLAT WASHER		
PP		*	N19-1267-08	FLAT WASHER		
QQ		*	N19-1268-08	FLAT WASHER		
127	3B	*	S62-0006-08	SLIDE SWITCH		
128	3D	*	S64-0002-08	LEVER SWITCH		
129	3D	*	S64-0003-08	LEVER SWITCH		
130	3D	*	S68-0001-08	PUSH SWITCH		
135	1F	*	T35-0005-08	DRUM ASSY		
136	3H	*	T42-0588-08	MOTOR ASSY		
137	2B	*	T42-0589-08	MOTOR ASSY		
138	1D, 2D	*	T42-0590-08	MOTOR ASSY		
139	3G	*	T94-0223-08	SOLENOID COIL		
142	3E	*	W02-1067-08	ELECTRIC CIRCUIT MODULE		
143	2B	*	W02-1073-08	ELECTRIC CIRCUIT MODULE		
144	2A, 3B	*	W02-1074-08	ELECTRIC CIRCUIT MODULE		
145	2B	*	W02-1080-08	DEW SENSOR		
IC1		*	HA12133MP	IC		
IC101, 102		*	TAT7745F	IC(MOTOR DRIVER)		
IC201, 202		*	UPC358	IC		
Q1 -3		*	2SC2412(KR)	TRANSISTOR		
T101-103		*	2SA1314-B	TRANSISTOR		
T201-203		*	2SC1314-B	TRANSISTOR		

E: Scandinavia & Europe K: USA P: Canada W:Europe

Y: PX(Far East, Hawaii) T: England M: Other Areas

Y: AAFES(Europe) X: Australia

△ indicates safety critical components.

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DX-7030

SPECIFICATIONS

[Mechanism / transport system]

Type

.....Digital audio tape deck with rotating head system

Heads

.....Two rotating heads (sputtered sendust heads)

Motors (6 motors) DD motor (for capstan)

DD motor (for drum)

DC motor (for loading) x 4

Tape speed 8.15 mm/s

Recording time 120 minutes (with DR-120 tape)

Rewind time

.....approx. 40 sec (with 120 minute recorded tape)

[Digital format]

No. of channels 2 channel stereo

Sampling frequency

.....Recording : 48kHz, 32kHz (digital input only)

Playback : 48kHz, 44.1kHz, 32kHz

No. of quantization bits 16bit linear

[Electrical characteristics]

Frequency response 2Hz ~ 22kHz

Signal to noise ratio More than 93dB

Dynamic range More than 92dB

Note:

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Total harmonic distortion Less than 0.005%

Wow flutter Below measurable limit

[Input terminals]

Line input (analog signal recording)

..... 500mV, input impedance 10kΩ

Digital coaxial input

..... 0.2V (P-P), input impedance 75Ω

Digital optical output

..... -15dBm ~ -24dBm (660nm)

[Output terminals]

Line output (analog signal playback)

..... 2V RMS, output impedance 1kΩ

Digital optical output

..... -18dBm (wavelength 660nm) rectangular type

Headphone output

..... 20mW (16Ω), stereo standard jack

[General]

Power consumption 30W

External dimensions W : 440mm

H : 127mm

D : 370mm

Weight (net) 9.6kg

Note :

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the U.S.A. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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